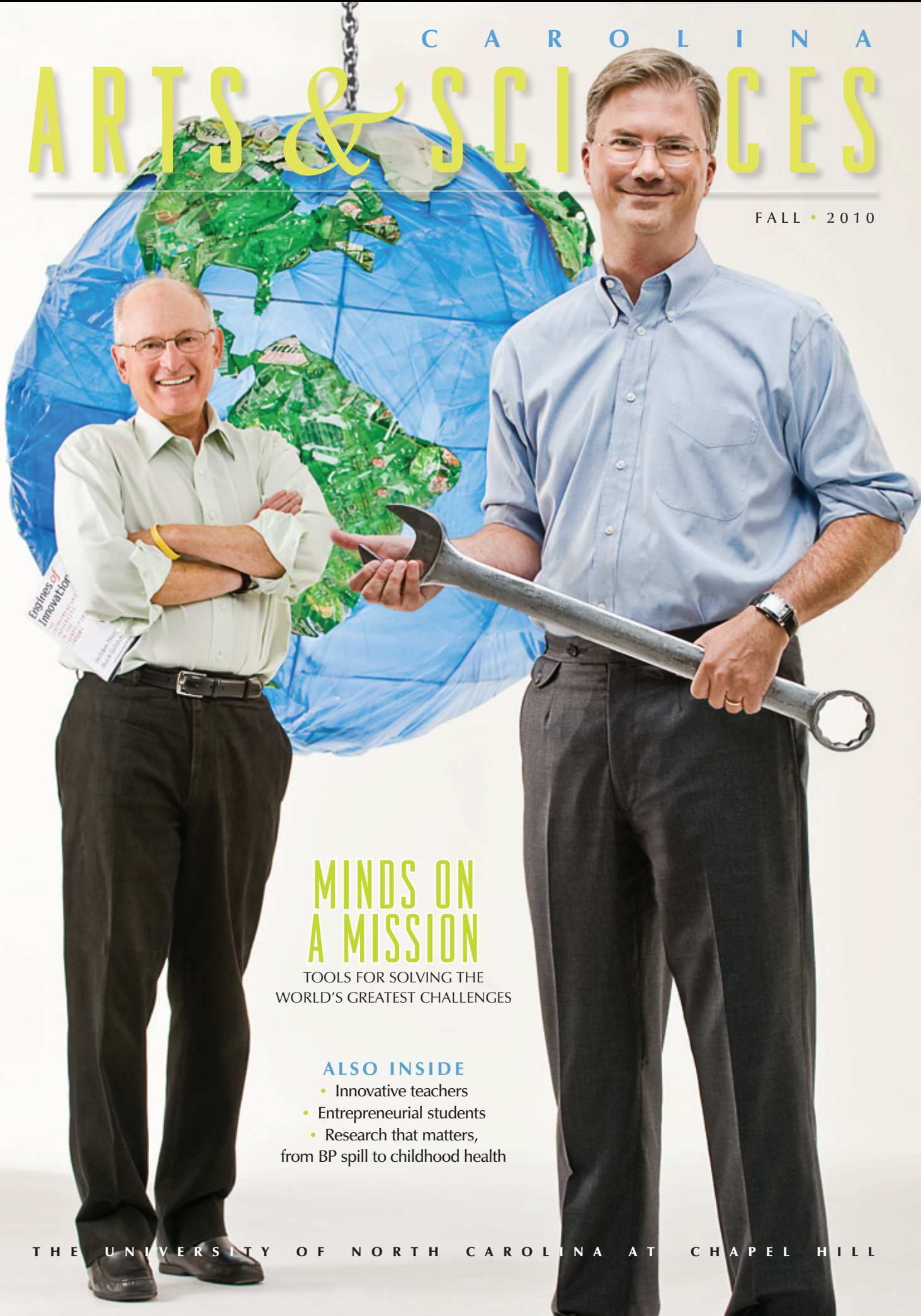


C A R O L I N A ARTS & SCIENCES

FALL • 2010



MINDS ON A MISSION

TOOLS FOR SOLVING THE
WORLD'S GREATEST CHALLENGES

ALSO INSIDE

- Innovative teachers
- Entrepreneurial students
- Research that matters,
from BP spill to childhood health

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL



Karen M. Gil

Inspiring innovation

The late economist Ted Levitt once said: "Just as energy is the basis of life itself, and ideas the source of innovation, so is innovation the vital spark of all human change, improvement and progress."

His words are not just food for thought for us in the College of Arts and Sciences. Innovation is something we teach and do. The College is the prime site on the UNC campus for inspiring creativity and entrepreneurial-thinking in undergraduate and graduate students. Our faculty and students collaborate to seek solutions to the world's greatest challenges, through classes, laboratory experiments, field work and community engagement

all over the world. That's exactly what world-class research universities should do, according to *Engines of Innovation: The Entrepreneurial University in the 21st Century*, a new book by UNC Chancellor Holden Thorp '86 and Buck Goldstein, university entrepreneur-in-residence and professor of the practice in the department of economics. We share an excerpt in this issue of *Carolina Arts & Sciences*.

You can also read about social entrepreneur Morgan Abbott, a junior pursuing a minor in entrepreneurship in the College. While volunteering at an orphanage in Kenya, she identified a problem and turned it into a solution and an opportunity. She streamlined a bogged-down adoption process for several orphanages, developed and funded a nonprofit and created internships for UNC students. Morgan won a JNO Award, created by 2003 economics alumnus Jason Norris, to support her efforts.

In this issue, you will also travel to the North Carolina coast to meet alumnus and social entrepreneur Todd Miller, who has been fighting to protect our state's lands and waterways for 28 years.

The College is also playing a key role in a massive study of children's health. Kenan Distinguished Professor of Sociology Barbara Entwisle directs the state's involvement in the National Children's Study, the largest study of its kind in the United States. She has led UNC's Carolina Population Center for many years and has recently been tapped to take on a new challenge as the interim vice chancellor for research and economic development.

We have always placed a premium on recruiting, retaining and supporting faculty whose research and teaching are innovative. And our donors have been creative in their support of these super teachers. In this issue, we celebrate 30 years of the Bowman and Gordon Gray Professorships, among the University's most coveted awards for outstanding undergraduate teaching. We profile creative writing professor Marianne Gingher, political scientist Michael Lienesch, physicist Laurie McNeil, philosopher Geoff Sayre-McCord and communication studies professor Julia Wood.

We also highlight innovative research by our students and faculty. We are excited about a \$1.3 million grant from the Howard Hughes Medical Institute to our Office for Undergraduate Research. The grant will ignite undergraduate research in several different areas, including First Year Seminars, where students will learn how science can be used to solve the world's big problems. And we share news about faculty and graduate students whose research is providing answers about the BP oil spill and its impact.

As always, we salute our friends and donors through our annual Honor Roll. We are grateful for their gifts, which continue to support the innovative people and programs in the College.

— Karen M. Gil, Dean

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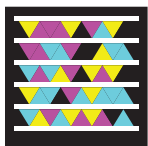
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COVER PHOTO: University Entrepreneur-in-Residence Buck Goldstein (left) and Chancellor Holden Thorp are authors of *Engines of Innovation: The Entrepreneurial University in the 21st Century*. Watch a behind-the-scenes YouTube video about the cover photo and the book by scanning this tag with your smart phone or by visiting college.unc.edu/extras. To use the tag, get the free mobile app at gettag.mobi. Cover photo by Steve Exum. Video by Steve Exum and Peyton Lea. Globe sculpture by Chatham County artist Bill Moore.

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We thank our many alumni and friends for their generous support of the College of Arts and Sciences.

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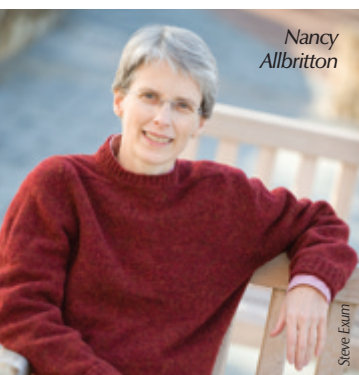
FINAL POINT

Why Paris? An essay by Rhodes Scholar Libby Longino '10

Three chemists honored for research

Three UNC chemistry professors have won major honors for their research.

- **Wei You**, assistant professor of chemistry, was awarded a CAREER Award by the National Science Foundation. The award supports the work of junior faculty members early in their careers and is among the most coveted awards offered by the foundation. The five-year \$490,000 grant will support You's research in developing solar cells with high-energy conversion efficiency and low-production costs.



Nancy Allbritton



Wei You

- **Nancy Allbritton**, the Paul Debreczeny Distinguished Professor of Chemistry, was elected a fellow of the American Institute for Medical and Biological Engineering and rewarded for her outstanding achievements in the field. Allbritton is chair of the UNC/NC State University joint department of biomedical engineering. Her research focuses on measuring the activity of proteins in cellular signaling networks to understand how these pathways influence cell health and disease.

- **Sergei Sheiko**, professor of chemistry, was elected a fellow of the American Physical Society for his exceptional contributions to physics. Sheiko is developing intelligent macromolecules and molecular assemblies that are able to sense, process and respond to impacts from the surrounding environment. Potential applications range from drug delivery and microelectronics to oil recovery and climate change. •

Stimson lauded for career accomplishments

UNC political scientist **James Stimson** has won a prestigious prize from the American Political Science Association (APSA).

Stimson received the 2010 Warren E. Miller Prize. The honor is periodically presented to an individual for outstanding career accomplishments and service in the elections, public opinion and voting behavior field. Only six prizes have been given since the award's inception in 1995.

Stimson, the Raymond Dawson Bicentennial Distinguished Professor of Political Science, earned his Ph.D. in 1970 from UNC. He returned to Carolina in 1997, after appointments at State University of New York at Buffalo, Florida State and the universities

of Houston, Iowa and Minnesota. He is a fellow of the American Academy of Arts and Sciences and the Society for Political Methodology. He also is a 2006 winner of a Guggenheim Fellowship.

The focus of his current work is macro theory and research on American politics, with particular emphasis on connecting mass behavior to governance in Washington and on the role of economics in political life. His 2004 book, *Tides of Consent: How Public Opinion Shapes American Politics*, won Harvard's Goldsmith Prize for best book on politics, the press and public affairs.

He has received numerous honors from the APSA, and at UNC, he won the 2008 Charles Robson Award for excellence in graduate student instruction. •



ABOVE: The American Political Science Association honored James Stimson.

Godschalk heads sustainability initiative

David R. Godschalk, distinguished professor emeritus of city and regional planning and a legendary leader in his field, has been tapped by the American Planning Association (APA) to co-chair a new national task force to help communities of all sizes achieve sustainability. In announcing the appointment, APA president Bruce Knight called Godschalk, "one of the most influential 'thought leaders' of the profession over several decades." •

Three Guggenheim Fellows

Three College faculty have won Guggenheim Fellowships to support their research:

- **Bernard L. Herman**, George B. Tindall Distinguished Professor of American Studies and Folklore, will explore the borderlands of contemporary art.
- **Louise McReynolds**, professor of history, will study true crime and punishment in imperial Russia.
- **Mary D. Sheriff**, W.R. Kenan Jr. Professor of Art History, will write about depicting the allure of conquest in 18th century France. •



Carney named new provost

Bruce Carney, Samuel Baron Distinguished Professor of Physics and Astronomy, was named Carolina's executive vice chancellor and provost last spring. He received the official promotion after serving as interim provost for a year, providing outstanding leadership during the most challenging economic time for the University, and the nation, in more than half a century.

Carney has held a number of key leadership roles at UNC over the years since joining the University faculty in 1980. He served as interim dean for the College, senior associate dean for the natural sciences, and chair for the department of physics and astronomy. He was instrumental in shaping the vision for the SOAR Telescope in Chile and the Carolina Physical Sciences Complex, the largest construction project in the University's history.

It was especially appropriate that he received the 2010 C. Knox Massey Distinguished Service Award as he accepted his newest leadership role. •



ABOVE: Foundation board chair James Alexandre, John Akin and Karen Gil.

AKIN PRAISED FOR LEADERSHIP AND SERVICE

John Akin, professor and former chair of the department of economics, has received the William F. Little Distinguished Service Award for "outstanding leadership" in service to the College. The award, presented by the Arts and Sciences Foundation, is named for the organization's late founder, a UNC chemist and University leader who

helped develop Research Triangle Park.

Akin has served on the Dean's Advisory Committee, oversaw the department of economics for a decade, and supported the development of the academic minor in entrepreneurship and a unique joint degree program with the National University of Singapore. He is the Austin H. Carr Distinguished Professor.

"[He] has taught and mentored hundreds of undergraduate and graduate students," said Dean Karen M. Gil, "many of whom have been inspired to become health economists to address the major public-health finance challenges of our time." •

GOODBYE DEAN CANNON

Carolyn Cannon, longtime associate dean and director of the academic advising program in the College, retired last spring.

Cannon was at UNC for 25 years and led the advising program since 1999. In 2007, she won the C. Knox Massey Distinguished Service Award, one of the University's highest honors. She was recognized for being a strong advocate for

students, contributing significantly to students' academic success, and for building a strong, professional academic advising program over the years.

"It is through her leadership that advising has grown into a thriving department, meeting the

needs of so many students, and it is through her continued passion for students that we will continue to grow," one nominator said.

Cannon said that advising is about building a relationship that is deeper than checking off degree requirements or keeping students enrolled for a certain number of credit hours each semester.

"My philosophy toward advising is that students and advisers are partners in planning," she told the *University Gazette*.

"We must help students with their self-discovery and discuss their interests, needs and values." •



BAUMGARTNER WINS POLITICAL SCIENCE BOOK AWARD

UNC political scientist **Frank Baumgartner** has won the Leon D. Epstein Outstanding Book Award from the American Political Science Association.

Baumgartner, the Richard J. Richardson Distinguished Professor of Political Science, was honored for *Lobbying and Policy Change: Who Wins, Who Loses and Why*, co-authored with Jeffrey M. Berry, Marie Hojnacki, David C. Kimball and Beth L. Leech.

The book is based on 10 years of research and hundreds of interviews with Washington-based lobbyists. The authors describe the surprising difficulties that lobbyists have in getting what they want, suggesting limits to the “money buys outcomes” thesis that has become common in describing how lobbying works in Washington. •



ABOVE: Frank Baumgartner won a major prize for his book on lobbying and policy change.

Coming Soon

- **Oct. 5: William Kristol**, founder and editor of *The Weekly Standard*, and Mark Shields, longtime political analyst for *PBS NewsHour*, will discuss “State of the Union, Mid-Term.” Moderated by Hodding Carter III, University Professor of Leadership and Public Policy. Shields and Kristol will be at UNC as the Frey Foundation Distinguished Visiting Professors. 7 p.m. Memorial Hall.

- **Oct. 7: Lee Smith**, acclaimed author of 16 works of fiction including *Oral History*, *Fair and Tender Ladies*, and her newest short-story collection, *Mr. Darcy and the Blue-Eyed Stranger*, will receive the Thomas Wolfe Prize and deliver the annual Thomas Wolfe Lecture. Sponsored by the Morgan Writer-in-Residence Program and the Department of English and Comparative Literature. 7:30 p.m. Carroll Hall auditorium. •

MORE INFO: college.unc.edu

Two computer scientists are virtual reality experts

Two UNC computer scientists have won national awards for their virtual reality research from the Institute of Electrical and Electronic Engineers (IEEE) Computer Society.

- **Frederick P. Brooks Jr.**, Kenan Professor of Computer Science, received the 2010 Virtual Reality Career Award for his lifetime contributions to virtual reality research and practice.

- **Ming C. Lin**, John R. and Louise S. Parker Distinguished Professor of Computer Science, received the 2010 Virtual Reality Technical Achievement Award for seminal technical achievements in virtual and augmented reality.

UNC's 3-D imaging program is ranked number one in the nation by *US News & World Report*.

For more than 30 years, Brooks has led a laboratory that fosters scientific and technical advances in virtual reality. His research in virtual reality has helped biochemists study complex molecules and let architects ‘walk through’ buildings still on the drawing board. In the 1960s, he was IBM’s corporate project manager for the revolutionary System/360 development. He founded UNC’s department of computer science in 1964 and served as its chair for 20 years. He is the author of *The Mythical Man-Month: Essays on Software Engineering* (1975, 1995), considered a classic among computer science scholars and professionals.

Lin has been working on physics-based interaction and geometric modeling for virtual reality, computer graphics, haptics, sound rendering and robotics for more than 20 years. She has led the development of more than a dozen software systems in these areas. Her research group is enhancing the realism of virtual cityscapes by incorporating interactive, large-scale crowd and traffic simulation, and they are currently working on the development of computer generated sound for computer animated imagery. •



ABOVE: Ming Lin with graduate students Zhimin Ren, right, and Hengchin Yeh, center.

STELLAR STUDENTS WIN NATIONAL SCHOLARSHIPS

Students in the College of Arts and Sciences continue to shine in winning national distinguished scholarships.

Senior **Christopher Sopher** of Annandale, Va., was awarded the Truman Scholarship in support of graduate studies toward a public service-related degree. A double major in public policy and political science, he hopes to use the award to complete a joint law and public policy master's degree program at Harvard University. The Morehead-Cain Scholar ultimately wants to specialize in education policy in Washington, D.C.

Senior **Michael Mian** of Concord, N.C., won a Udall Scholarship to pursue a career in environmental studies. Mian is pursuing a double major in political science and in environmental justice and conflict resolution, a self-designed major, with a minor in entrepreneurship. A Morehead-Cain Scholar, he seeks a career that embodies his

commitment to environmental justice and international action on climate change.

Seniors **Len Evans** of Fresno, Calif., and **Daven Quinn** of Concord, N.C., won Goldwater Scholarships for pursuing careers in mathematics, the natural sciences or engineering. Evans is a physics and astronomy and mathematics double major with a minor in music. He wants to pursue a career in nuclear physics. Quinn is a double major in geological sciences and economics and hopes to become a planetary geologist.

Four May '10 graduates, including two Rhodes Scholars, were named to *USA Today's* All-USA College Academic Teams. **Elizabeth "Libby" Longino** of Dallas, Texas, and **James "Jimmy" Waters** of Morehead City, N.C., were among 20 students chosen for the newspaper's first team. Among students named to the paper's second team were **Henry Spelman** of Swarthmore, Pa., and **Lauren Teegarden** of Lake Oswego, Ore. Longino and Spelman are Rhodes Scholars. Longino majored in English and public policy analysis, Waters majored in mathematical decision sciences and economics, Spelman majored in classical languages with a minor in creative writing, and Teegarden majored in Latin American studies and Spanish with a minor in business administration. •



Kristen Chavez



Kristen Chavez

TOP: Christopher Sopher
BOTTOM: Michael Mian

Graduate students help revitalize N.C. communities

UNC is helping to revitalize the economies of small communities across the state through its internship program, the Carolina Economic Revitalization Corps.

The program sent six graduate students (four in the College of Arts and Sciences) to work for 10 weeks last summer with six communities across the state as a way to give graduate students considerable on-the-job experience while helping municipalities with economic development planning.

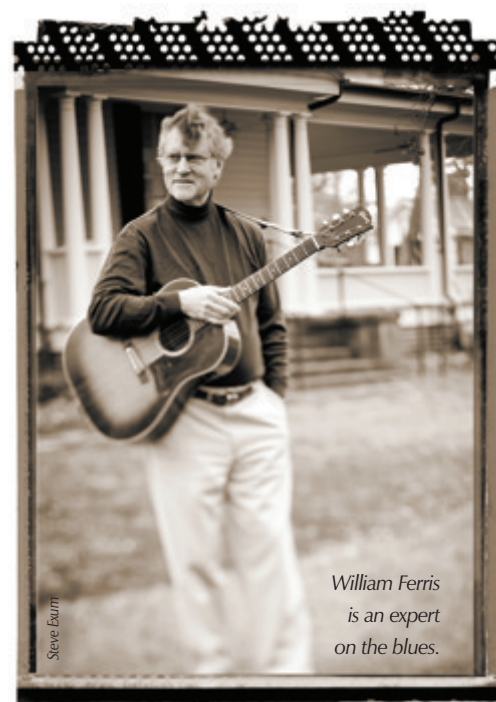
The University-wide program was created by the Office of Economic and Business Development and is administered by the School of Government. It was started in 2009 to respond to communities that needed help applying for American Recovery and

Reinvestment Act funding.

The interns come from the departments of city and regional planning in the College, public administration in the School of Government and the Gillings School of Global Public Health.

The graduate students from city and regional planning and their N.C. assignments included:

- **Fredrick Davis**, Northeast Commission in Edenton;
- **Matthew Dudek**, Cape Fear Council of Governments in Wilmington;
- **Lindsey Moriarty**, Lumber River Council of Governments in Pembroke;
- **Aaron Nousaine**, Land-of-Sky Council of Governments in Asheville. •



William Ferris
is an expert
on the blues.

Ferris receives lifetime achievement award

Blues historian **William Ferris** has received a Lifetime Achievement Award from the Mississippi Institute of Arts and Letters.

Ferris is the Joel R. Williamson Eminent Professor of History and senior associate director of UNC's Center for the Study of the American South.

A native of Vicksburg, Miss., he founded the Center for the Study of Southern Culture at the University of Mississippi. He also is the former chair of the National Endowment for the Humanities and co-editor of the *Encyclopedia of Southern Culture*. He is the author of many books, including, most recently, *Give My Poor Heart Ease: Voices of the Mississippi Blues*.

"It means everything when you're recognized by the people at home," Ferris told Mississippi's *Clarion Ledger*. •

TEACHING STARS

Shining the SPOTLIGHT on 30 years of

PHOTOS BY STEVE EXUM

LEFT TO RIGHT: Professors Julia Wood, Marianne Gingher, Geoffrey Sayre-McCord, Laurie McNeil and Michael Lienesch in the historic Playmakers Theatre.

THEY INSPIRE, MOTIVATE, CHALLENGE AND ENGAGE. THEY SHAPE LIVES. THEY TEACH, AND THEY DO IT VERY WELL.

Many alumni cherish the great teachers they had at Carolina. Over 30 years, 66 Bowman and Gordon Gray Professorships have been awarded to the best undergraduate teachers in UNC's College of Arts and Sciences. You'll read about some of these luminaries in the following pages. A handful of faculty have been awarded the honor twice.

These coveted term professorships were established in 1980 by the late Gordon Gray, who graduated from UNC in 1930, and the estate of his brother, Bowman Gray Jr., a 1929 graduate. But the Gray family's initial support of teaching dates to nearly 50 years ago, with gifts to support separate undergraduate professorships.

Bernard Gray '72, Gordon's son, significantly enhanced the Bowman and Gordon Gray professorships with a gift in 1999 that doubled the annual salary supplement, extended the award period from three to five years, provided an annual fund for research support and included a highly valued sabbatical. They remain today among the University's most esteemed awards for outstanding undergraduate teaching.

In 2009, Gray strengthened the teaching emphasis by creating the Bernard Gray Distinguished Professorship, a permanent chair to be awarded to a faculty member who has served as a Bowman and Gordon Gray Professor.

Gray remembers the impact that political science professor emeritus Joel Schwartz had on him at Carolina. Years later, Schwartz would receive one of the first Bowman and Gordon Gray Professorships.

remarkable PROFESSORS



“He was a memorable professor,” said Gray, president of Gray Ventures, a venture capital firm based in Atlanta. “He was a great teacher, but he also left an impression that carries with me today.”

Gray said it’s been rewarding to meet professors who are so passionate about what they do.

“They all care about the student as a person, about the University as an institution and about trying to make the world a better place,” he said.

Perhaps communication studies scholar Julia Wood, the first woman to receive a Bowman and Gordon Gray Professorship in 1983, says it best:

“We have four years to work with these incredible students [at UNC], four years that should change a student’s life. If they don’t, we haven’t done our job.”

Marianne Gingher:

The grammar-is-fun evangelist

By Pamela Babcock

Marianne Gingher is an academic subversive. She wants to overturn the established view about the most vexing part of writing — learning grammar.

Instead of grammar lessons being boring and even painful, she thinks they can be fun.

And the response she gets? Laughter. Uproarious, side-splitting laughter.

It’s not that people don’t agree that there’s humor in gerunds, participles and conjunctives. It’s that they couldn’t agree more.

Each year, Gingher, a creative writing professor at Carolina, pours her ingenuity into the popular course “Stylistics,” a.k.a. “Gram-o-Rama.” Students tackle the basics of grammar by “performing” it in a musical medley of puns, parodies, diphthongs and dangling modifiers. At the end of the semester, the show goes before a live audience in Wilson Library.

Alisa Eanes ’08, who took the course as a senior, saw a “Gram-o-Rama” show during her first year at UNC and said she walked out “crying with laughter and holding my sides because they hurt so badly.” She said Gingher’s “playful spin on life and learning is motivating and inspiring.”

Gingher is an evangelist for an idea of grammar fun introduced by writer Daphne Athas, a long-time UNC creative writing lecturer. Athas learned grammar following the tedious path of sentence diagrams and conjugating verbs. That worked for earlier generations, but when she introduced “Stylistics” in 1976, Athas decided on a method that would, she said, “beguile and delight.”

Gingher saw the wisdom in Athas’ insight and has brought it to another — yet more electronically distracted — generation.

“It’s the grammar lesson as performance art,” said Gingher,

continued

who begins her term as Bowman and Gordon Gray Professor in fall 2011. In “Gram-o-Rama,” students break grammar rules, such as avoiding passive language, with often absurd results.

After graduating with an M.F.A. in creative writing from UNC-Greensboro, Gingher joined Carolina as a lecturer, then spent two years in the late '80s as an assistant professor of English at Hollins College in Roanoke, Va. She returned to Carolina in 1998 and has served as director of the creative writing program. She is currently co-director of the Thomas Wolfe Scholarship and has twice been awarded the North Carolina Literary Fellowship Award for Fiction.

Gingher is the author of seven books — both fiction and nonfiction. Her work has appeared in a number of periodicals. In her 2008 memoir, *Adventures in Pen Land: One Writer's Journey from Inklings to Ink*, Gingher recalls coming of age as a writer, beginning at age 6.

A proponent of the workshop process, Gingher encourages students to pour everything into a piece, then she pours herself into offering constructive feedback.

“Her suggestions are always so insightful, and that is so important for a young writer,” said Jillian Vogel, '12, a communication studies major.

Novelist Daniel Wallace, the J. Ross MacDonald Distinguished Professor of English at UNC, took Gingher's creative writing course as a Carolina undergraduate in the early 1980s.

“She was the same then as she is now — very positive and encouraging — but also critical in the necessary ways,” Wallace said.

Known for wearing vibrant colors and exuding warm and welcoming energy, Gingher recently co-wrote a comic puppet play and spent a week in a Georgia Tech dorm attending the 2009 Puppeteers of America National Festival.

“It refreshes me to stick my neck out to try something new,” she said. “I love the challenges of invention.”



Michael Lienesch:

Reaching the student on the back row
By Don Evans '80

Political scientist Michael Lienesch believes teaching is about discovery and tapping into the sense of excitement that can come with learning — for student and instructor. And he's good at handing students the intellectual tools to help them bring out the power that resides within each of them.

“Over the years I've come to think that it's less important to convey information than to encourage independent thinking,”

said Lienesch, who teaches graduate and undergraduate courses in American, classical and modern European political theory. “I've come to lecture less and talk back-and-forth more with students.”

That back-and-forth puts a premium on student engagement and can be as simple as setting up a class blog and requiring that students post several times a semester. He also bans laptop computers from his classroom — he believes the machines create a barrier between a professor and his students.

Lienesch, a Bowman and Gordon Gray Professor from 1995 to 1998, has won the UNC Tanner Award for Excellence in Undergraduate Teaching, and in 2010 was named University Professor of Distinguished Teaching, which recognizes career-long achievement.

“He's passionate about teaching,” said Susan Bickford, an associate professor of political science at UNC. “He wants everyone to succeed. He doesn't rely on flashy technology to capture students' attention. To me, that's part of what makes him such a talented and creative teacher, that he can enliven and intrigue even students predisposed to seeing these works as dusty old books.”

In the classroom, Lienesch finds ways to demonstrate that the thoughts of Plato, Aristotle and John Locke are relevant to students' lives today: Those authors wrote about the individual's relationship to authority and standing up for oneself and asserting one's rights — the great themes of the history of political thought.

Will Schultz '10, who was a student in Lienesch's “Politics and Religion” course, said the professor is a master at inspiring class participation. “No one sat silent for an entire semester,” Schultz said. “Everyone spoke up.”

While engaging students is Job 1 for Lienesch, getting teachers involved is just as important. He sees the Bowman and Gordon Gray award as an excellent motivator.

“It's not just another teaching award, it's a teaching professorship, and those are rare in the university,” he said. “It's important to have that kind of support.”

Lienesch likes the fact that the Gray family donated money to a public university to support public education. “On top of that, they gave it to the liberal arts, which is an education that prepares you for a better, fuller life. Liberal arts are about liberty, about the freedom that comes from having a wider view of the world and all its possibilities.”

Bickford said Lienesch's commitment to teaching extends to graduate students.

“He's great at helping graduate students develop themselves as scholars and writers,” Bickford said. “He understands that teaching also happens in informal advising.”

Lienesch acknowledges that it's easy to teach students who have a desire to learn. His said his favorite moments in the classroom



come when he connects with the student who is uncertain about being in the class.

"I teach for the students who might not otherwise be very engaged," he said. "For me, the best part of teaching, maybe the hardest and most gratifying, is reaching students who could easily slide through a course. When I can get them interested and involved and doing well, those are the best moments."



Laurie McNeil

Laurie McNeil: Looking for light-bulb moments

By Angela Spivey

Laurie McNeil, professor of physics and astronomy, has spent her career helping create those instances when people really get it — when an idea actually changes the way they see the world.

For instance, in McNeil's First Year Seminar about the physics of music, students are taught that a stringed instrument like a violin makes sound partly because it has a top.

"Strings are stretched across the violin and held up by the bridge that is attached to the top of the violin,

and so the top vibrates, making the air inside the violin vibrate, and that produces the sound you hear," McNeil said. The students read this, and it's demonstrated in class, but every year, someone builds a stringed instrument that doesn't work. "They haven't consciously ignored what they read about. It's just they haven't internalized it. So they proceed without it. And when the instrument is inaudible, that's when the light bulb [turns on]."

McNeil, who was awarded a Bowman and Gordon Gray Professorship in 1996, has created many light-bulb moments across the University community, both in and beyond the classroom. She has been a leader in addressing the challenges women face to advance in the sciences. Research shows that people in the sciences tend to write letters of recommendation differently based on a candidate's gender, she said.

People can avoid such pitfalls by thinking about some of those unconscious biases while evaluating applicants, McNeil says. She created a presentation to help departments do that, as part of her work as one of the first Working on Women in Science (WOWS) Scholars, a program that McNeil helped propose that is designed to increase the success of women in science at UNC.

McNeil is known for creating a welcoming environment for students of both genders. Susan Lehman, associate professor and chair of physics at the College of Wooster, did her graduate work at Carolina with McNeil in the late 1990s.

"She is always thinking about how she can train her students

to be the best physicist they can be," Lehman said.

McNeil also has made important contributions to enhancing undergraduate education at Carolina. From 2000 to 2003, she chaired a revision of the general education curriculum for all undergraduates, preserving the best aspects of a rigorous liberal arts education while making it more innovative and meaningful for the 21st century. She also was instrumental in the establishment of UNC-BEST, a groundbreaking collaboration between the College and the School of Education that prepares science majors to become high school science teachers. Students graduate with a bachelor's degree and a N.C. teaching license in four years. And in fall 2004, with a Chapman Family Faculty Fellowship, she created a plan that is transforming the teaching of introductory physics at UNC.

Always a pioneer, when McNeil joined the University's physics and astronomy department in 1984, she was the first, and sole, female tenure-track faculty member. While chairing the department from 2004 to 2009, she helped to triple the number of women on the physics faculty.

"As people become accustomed to seeing women in leadership roles, they start to rewrite their mental script of what an effective leader and an outstanding scientist look like," she said.

In McNeil's case, her penchant for knitting during lengthy meetings shows a patient dedication to details. She applies the same eye for detail that knitting requires to preparing her lab's lasers and lenses to measure the optical properties of novel crystals.

"With optics work, you have to have the patience to spend the time to make adjustments in alignment, or else you're going to waste time getting inaccurate data," she said. "I always tell students who want to join our group — optics is for fussbudgets."

Geoffrey Sayre-McCord: Philosophy is a contact sport

By Lisa H. Towle

Geoffrey Sayre-McCord remains remarkably sanguine about the future of philosophical thinking in an era of sound bites and transient tweets. This is because he has a 2.0 version of philosophy that's robust enough to burnish the cred of even the ancient philosophical masters.

In the opening minutes of his first undergraduate class of the fall semester comes this challenge from the Morehead Alumni Distinguished Professor of Philosophy and chair of the philosophy department: "You only think philosophy doesn't matter if you're willing to be a pawn of others' ideas." Philosophy, he continues, "allows us to appreciate,

continued



Geoffrey Sayre-McCord

sharpen and evaluate the ideas that shape our lives.”

Throughout the course, Sayre-McCord, who insists on the study of the writings of Plato, Aristotle, Mill and Kant as “living contributions to an ongoing search for an understanding of morality,” also offers provocative, contemporary vignettes with eternal themes — the disparity of power, the pain of misplaced faith and the lure of luxury, for example. Then, story told and images planted, he waits for reactions. Make that waits for pushback — and inevitably it comes.

Gerald Postema, the Boshamer Professor of Philosophy, has watched this “bring it on” approach to teaching evolve since 1985, the year Sayre-McCord joined the department. “Geoff is a master teacher. Many of us have learned from him that ‘philosophy is a contact sport.’ You’ve got to approach students directly, and not lecture at them but probe with them if you want them to learn how to think critically.”

Sayre-McCord, whose teaching awards include a Bowman and Gordon Gray Professorship in 1999, embodies the belief held by fellow members of the philosophy department at Carolina: An understanding of the basics of philosophic thought can benefit endeavors ranging from business to law to science.

“Not everybody gets it or likes it,” Sayre-McCord concedes, “but by and large the idea that ideas matter resonates.” And of course he’s gratified when former students contact him to acknowledge that his analogy (“the process of sorting through ideas is like sorting through an attic”) and his pledge (“during this course you’ll gain the ability to sort the treasure from the trash you find in the attic”) proved true.

Sayre-McCord’s message of the value of incorporating classic ideas in addressing contemporary issues has gained enough traction that it’s received attention on a most modern medium, the Web. In the first of two appearances with Will Wilkinson online at bloggingheads.tv, his conversation with the research fellow and editor at the Cato Institute reflected on how philosophical thought could provide a framework for people with opposing opinions to reason through any number of public policy concerns.

Wilkinson emphasized that their give-and-take about metaethics was one way of “finding a moral vocabulary that everyone could use in pursuit of knowledge . . . and justice.”

That summary would, no doubt, have pleased Sayre-McCord’s mother, who, at the time of her death in 2004, was a well-known criminologist and professor. But before circumstances took her career in another direction, Joan McCord had studied philosophy. She encouraged in her young son, whose interests ran to motorcycles and classic cars, an intellectual curiosity that extended to philosophy and a willingness to question convention with reasoned arguments.

Lessons learned. Sayre-McCord, a self-described “zealot” allows that, “I enjoy teaching too much to restrict it to college students.” He regularly offers weekend seminars through the UNC’s Program in the Humanities and Human Values. And an outreach program he helped to found through the department

takes philosophy to high-schoolers, because, “they are ready and able to use the tools of philosophy to think well and effectively about the world in which they find themselves and the opportunities they will face.”

Julia Wood: Tackling an altruistic ‘bucket list’

By Nancy E. Oates

In her lifetime, Julia Wood would like to see: women paid the same salaries as men, a female candidate for president treated with the respect afforded male candidates and fewer women who have suffered from abuse.

Call it an altruistic “bucket list.” Wood, the first woman to receive a Bowman and Gordon Gray Distinguished Professorship in 1983, has spent years in her field of communication studies trying to achieve goals that seem to flummox society.

“These are the things that keep me awake at night,” Wood said, “the inequities that still exist. I do realize how far we’ve come, and I know change is possible, but it doesn’t happen fast enough.”

In 1975, when Wood joined the faculty to teach communication studies — she had a bachelor’s from NC State, a master’s from UNC and a doctorate from Pennsylvania State University — administrators informed her that UNC was a research institution, and that’s what she would be judged on. Though she didn’t have any trouble meeting the research requirements, her personal priority was teaching. Receiving the Bowman and Gordon Gray Professorship served as a confirmation that teaching was important to the University. “It also was a signal that women were taken seriously, at a time when it wasn’t clear whether we were,” she said.

The field of gender and communication didn’t exist at the time, but she noticed that men and women in her small-group communication courses operated differently. She began reading and researching to answer her students’ questions about why these differences existed. In 1989, she developed and taught her first course in gender and communication; two years later, she wrote the textbook *Gendered Lives* that has become the standard for the field.

Communication studies department chair Dennis Mumby knew Wood by her reputation as a scholar years before he joined the faculty in 2002. He immediately noticed the way she works with students and her love of teaching. “She’s incredibly engaging and dynamic and has a wry sense of humor,” Mumby said. “She’s an amazing resource.”

Doctoral candidate Natalie Fixmer-Oraiz had the good fortune to be assigned as a graduate assistant in Wood’s gender and communication course. “In the lecture hall, she walks up and down



Julia Wood

the stairs and converses with ease, engaging students in the kind of discussion usually seen in much smaller settings. I've seen her inspire lecture halls of 75-plus undergraduates to burst into applause."

Over the years, Wood has received 13 awards for her teaching, and even more awards for scholarship. She also is an associate director for the Institute for the Arts and Humanities and director of graduate studies for the communication studies department. Just last year, she was named the Caroline H. and Thomas S. Royster Distinguished Professor for Graduate Education.

A prolific author, she writes textbooks as well as scholarly articles and books. And while volunteering at the women's shelter,

she noticed that regardless of the problems that brought the women there, all had been the victim of some sort of abuse.

"I wanted to know more about it in a more personal way than you can from reading other studies," she said.

Wood gained insight into intimate partner abuse by interviewing men in the Albemarle Correctional Institution, before and after they participated in a program to reduce domestic violence.

Everywhere, she teaches.

"Teaching is where the future is," Wood said. "We have four years to work with these incredible students [at UNC], four years that should change a student's life. If they don't, we haven't done our job." •

BOWMAN AND GORDON GRAY PROFESSORS, 1979-2011

• Joel Schwartz Political Science 1979-1982	• Alan Stern Political Science 1985-1988	• Lee Greene English 1991-1994	• Judith Farquhar Anthropology 1995-1998	• Peter Filene History 2002-2007	• Marc Lange Philosophy 2009-2014
• Lawrence Slifkin Physics and Astronomy 1979-1982	• Thomas Stumpf English 1985-1988	• Jurg Steiner Political Science 1991-1994	• Robert Kirkpatrick, Jr. English 1995-1998	• George Lensing, Jr. English 2002-2007	• Sarah Shields History 2010-2015
• William Peck Religious Studies 1980-1983	• Chris Armitage English 1986-1989	• Miles Fletcher, III History 1992-1995	• Michael Lienesch Political Science 1995-1998	• William Kier Biology 2003-2008	• Daniel Reichart Physics and Astronomy 2010-2015
• Jeff Obler Political Science 1981-1984	• George Houston Classics 1986-1989	• Joy Kasson American Studies 1992-1995	• Joseph Lowman Psychology 1996-1999	• Chris Armitage English 2004-2009	• Mitchell Prinstein Psychology 2011-2016
• Kenneth Reckford Classics 1981-1984	• Robert Bain English 1987-1990	• Cecil Wooten Classics 1992-1995	• Laurie McNeil Physics and Astronomy 1996-1999	• Richard Superfine Physics and Astronomy 2004-2009	• Marianne Gingham English and Comp Literature 2011-2016
• James Leutze History 1982-1985	• Michael Salemi Economics 1987-1990	• Judith Bennett History 1993-1996	• James Seay, III English 1996-1999	• Michael Salemi Economics 2005-2010	
• Weldon Thornton English 1982-1985	• Mark Applebaum Psychology 1988-1991	• John Kasson History 1993-1996	• Bart Ehrman Religious Studies 1998-2001	• Bland Simpson English and Comp Literature 2006-2011	<i>Note: The Bowman and Gordon Gray Professorships were established on Nov. 24, 1980, although some Gray family funding was available for appointments that began in 1979. Gray Professorships were extended to Schwartz, Slifkin, Peck and Obler before the fund was officially named.</i>
• John Schutz Religious Studies 1983-1986	• James Jorgenson Chemistry 1988-1991	• James Ketch Music 1993-1996	• Hugon Karwowski Physics and Astronomy 1998-2001	• Rachel Willis American Studies 2006-2011	
• Julia Wood Communication Studies 1983-1986	• Peter Kaufman Religious Studies 1989-1992	• Patricia Pukkila Biology 1993-1996	• Anne Hall English 1999-2002	• Valerie Ashby Chemistry 2007-2012	
• Peter Filene History 1984-1987	• Richard King Psychology 1989-1992	• Willis Brooks History 1994-1997	• Geoffrey Sayre-McCord Philosophy 1999-2002	• Patrick Conway Economics 2007-2012	
• Jerry Mills English 1984-1987	• Theodore Leinbaugh English 1989-1992	• Beth Grabowski Art 1994-1997	• Joy Kasson American Studies 2000-2005	• Randall Styers Religious Studies 2008-2013	
• Conrad Neumann Marine Sciences 1985-1988	• Bill Barney History 1990-1993	• Thomas Warburton, Jr. Music 1994-1997	• Michael McFee English 2000-2005	• Abigail Panter Psychology 2008-2013	
	• Michael Zenge Music 1990-1993	• Sara Mack Classics 1994-1997		• Ted Mouw Sociology 2009-2014	
	• Sue Ellen Goodman Mathematics 1991-1994	• Reid Barbour English 1995-1998			



By Holden Thorp
and Buck Goldstein

ENGINES OF INNOVATION

AS PART OF A PANEL ON THE WORLD ECONOMIC CRISIS,

Google CEO Eric Schmidt said, “We are going to have to innovate our way out of this thing and our great research universities will have to lead the way.”

A week later, Harvard’s world-renowned strategist, Michael Porter, declared that America urgently needs a coherent economic strategy based in large part upon our strengths in innovation, entrepreneurship and higher education.

These comments helped us crystallize a conviction we intuitively understood but had yet to articulate.

First, innovation has to be central to any meaningful response to global crises — economic and otherwise. The bigger the problem, the more significant the innovation needed.

For research universities to realize their full potential, they must attack the world’s biggest problems — such as hunger, the shortage of water, climate change and inequality.

The long-term impact of such innovation on the economy is almost incalculable. Problem-based innovation in research

universities can focus resources from a variety of disciplines on the challenges we face and, in so doing, create new knowledge and economic growth.

Second, the nation’s research universities are expected to lead the way as far as innovation is concerned. Porter characterizes U.S. universities as the best in the world, as magnets for global talent, as engines for innovation and commercial development. Federal and state governments have invested billions annually for research and teaching, and private donors have made modern American research universities among the best-endowed institutions in our society.

Institutions that have received so much — and that are generally perceived as one of the crown jewels of American culture — must now step up at a time of crisis and play a central role in addressing critical issues facing the world.

The most important factor in achieving this goal is the people referred to by the noted social critic Richard Florida as the “creative class.” These scientists, artists, poets, designers, computer programmers, venture capitalists

and entrepreneurs have skill sets that allow them to live almost anywhere, but they migrate to academic hubs such as Silicon Valley, Boston’s Route 128, North Carolina’s Research Triangle Park, Austin, Ann Arbor and San Diego. Together, these hubs form an ecosystem that is, in effect, a social structure for innovation, already in place and ready to go. Research universities, as hubs of creativity, are the keepers of an enduring culture of innovation that is unique among the world’s great institutions.

Our final point is clearly the most problematic — and the reason we embarked upon this book. Our great research universities have almost all of the pieces in place to assume the responsibility that has been placed upon them at this critical time. But there is a missing ingredient: entrepreneurial thinking.

The impact of innovation increases when entrepreneurs are involved. They supply the spark, the passion and the commitment that inspires creative people to come together and achieve extraordinary things.

High-impact innovation requires an entrepreneurial mindset that views big problems as big

INNOVATION: ENTREPRENEURIAL UNIVERSITY

The entrepreneurial university in the 21st century

opportunities. When entrepreneurs and entrepreneurial thinking are injected into the mix, remarkable things happen at our great universities.

Many universities were founded as a result of a partnership between an academic, often a humanist, and an entrepreneur. Yet academics still too often equate entrepreneurship with opportunism or commercialization in a pejorative way.

We see entrepreneurship as fully consonant with the aims of the modern university and all of its varied parts. "Entrepreneurs innovate." Peter Drucker's words summarize both his thinking on the meaning of entrepreneurship and literally hundreds of books on the subject.

Entrepreneurs are not necessarily business people. Drucker's definition provides a metaphorical big tent — an intellectual framework — with room for social, scientific, artistic and, yes, even academic entrepreneurs.

We believe it is appropriate and imperative that entrepreneurship enter the dialogue taking place at America's great research universities. The result will be the kind of

innovation that will re-energize all of our great institutions in the 21st century.

An entrepreneur can just as easily practice in the artistic or social realm as the commercial, using the same basic mindset and tools. Wherever he or she operates, however, it is safe to say that the entrepreneur will be functioning as a "change agent."

We also believe that the popular understanding of the word "innovation" captures only a small part of its meaning. Curing cancer, sending a rocket to the moon or inventing the microchip is what most likely comes to mind in response to the word. But the reality is much more complex and nuanced. Rather than a big idea that is going to change the world overnight, innovation is more likely a subtle twist in approaching a problem.

Innovation almost always involves change, but it is often the change of a process or way of doing things as opposed to the invention of a better mouse trap. And innovation is almost always driven by *somebody* (typically an entrepreneur), not an institution or a listserv or a committee.

Entrepreneurship, then, is not a subject or a discipline, but a practice or a way of thinking that can increase the impact of innovation. It is not characterized solely by an "a-ha" moment, but rather a series of actions and decisions that translate a good idea into reality.

To succeed in a university setting, entrepreneurship must be clearly defined as a necessary ingredient for innovation, a particular approach to solving problems, and a complement to — not a substitute for — the critical methods that are fundamental to the liberal arts and sciences.

Entrepreneurship must not be viewed as mere commercialization, wealth accumulation or management. The fundamental entrepreneurial mindset, and the techniques that go with it, are the same no matter what your interests, dreams and values happen to be. This principle is the abiding counterpart to our conviction that ours is the era of entrepreneurship.

We hope our ideas for the future of the university will provoke an important conversation on campuses across the nation and

among stakeholders in the future of these institutions.

The opportunities facing American research universities have never been more significant, and the stakes have never been higher. In these times, few things could be more exciting than unlocking the promise of one of America's greatest institutions. •

— Holden Thorp BS '86 is UNC's entrepreneurial chancellor, Kenan Professor of Chemistry and former dean of the College. Thorp serves on a presidential panel on entrepreneurship strategies. Buck Goldstein is entrepreneur-in-residence for the College's minor in entrepreneurship and an economics professor of the practice. Excerpted from their new book, *Engines of Innovation*. © 2010, UNC Press. www.revupinnovation.com.

Watch a behind-the-scenes YouTube video about the book and our magazine cover photo. Look for this tag on the Table of Contents and scan it there with your smart phone or visit college.unc.edu/extras. To use the tag, get the free mobile app at gettag.mobi.



ENTREPRENEURIAL UNIVERSITY

By Kim Weaver Spurr '88

CAROLINA *for*

UNC STUDENT AND SOCIAL ENTREPRENEUR MORGAN ABBOTT

has made the quote at the end of her e-mail signature her personal mission: "Learn to do right! Seek justice, encourage the oppressed. Defend the cause of the fatherless. Isaiah 1:17."

Abbott, a junior public policy and religious studies major from Raleigh, made her first trip to Kenya in 2007 "by accident" when a high school church trip to Uganda got cancelled. At the suggestion of a friend, she accompanied Jane and Chad Stephens to Kenya instead. The Stephens founded The Amani Children's Foundation of Winston-Salem, a nonprofit organization that supports the work of the New Life Homes orphanages in Africa.

Abbott fell in love with the orphanages and vowed to return. She did so in the summer of 2009, after her first year at Carolina.

That's when she met Betsy.

Betsy was an abandoned 3-week-old baby who the social worker for New Life Homes had to retrieve one day. Abbott asked to tag along for the ride. That's when she discovered that rescuing



ABOVE: Morgan Abbott (top right) with children and caretakers in the New Life Homes. Her organization, Carolina for Amani, supports the Kenyan orphanages. AT RIGHT: Abbott enjoys some play time with the children.

children wasn't like a fairy tale.

"She was abandoned, starving; it was horrible. That image is permanently ingrained in my mind," said Abbott. "And it took five or six hours to get everything we needed to get her settled in one of the homes."

"The whole time, I'm holding Betsy, trying to feed her; she's crying and I don't know

what to do. ... Finally we get back to New Life Homes and we bring her upstairs to the medical wing, where the director, a registered Kenyan nurse, is waiting. Immediately, she took Betsy into her arms and started praying for the child. ... She said, 'We are naming you Betsy because Betsy means, 'God is a vow.' And just like your name Betsy, we vow to

Entrepreneur Morgan Abbott
with three toddlers at the
New Life Homes in Nyeri.



AMANI

Student entrepreneur brings hope to Kenyan orphanages

love you and take care of you.’
And Betsy just stopped crying.”

Abbott had discovered through her two trips to Kenya that the children in the New Life Homes were receiving superior care. But with only one social worker, their legal paperwork had become backlogged, often stalling the adoption process.

So Abbott gave birth to her own organization — Carolina

Nyeri. Each child has a 20-25 page document with his individual legal and medical history, a developmental timeline and a personality assessment. Digitizing the files helps make the adoption process more efficient. The interns also converted the orphanages’ archives into an electronic format, dating back to their founding in 1994.

Abbott received two UNC awards to help her efforts — an Entrepreneurial Public Service Fellowship and a new JNO Award from the College of Arts and Sciences. The JNO Award was created by 2003 economics alumnus Jason Norris for students like Abbott who are pursuing a minor in entrepreneurship.

Darcy Lear, a romance languages instructor who taught Abbott in two Spanish entrepreneurship classes at UNC, calls her a “born entrepreneur.”

“From the very beginning, Morgan was very focused. She finds a problem and recognizes that as an opportunity,” Lear said. “She gathers the resources, and she creates something of value.”

“This generation of students is going to have to solve the

world’s problems, and we sure have left them with a lot. ... They need to get traditional training, but to also figure out how to innovate to succeed.”

One of the key light-bulb moments for Abbott in the entrepreneurship minor was that she learned you don’t have to create an idea from scratch to be an entrepreneur. Abbott said her faculty adviser, Julia Sprunt-Grumbles, calls it “reforming a process need.”

“The biggest difference can be made in helping along a process in a new way and working inside a current infrastructure,” she said. “That’s been a great lesson for me — how to become an entrepreneurial thinker.”

Abbott’s organization became a special project of the Campus Y last fall. One of the ways she and others help to raise money for the Amani Foundation is by making jewelry. A Nairobi organization called Kazuri Beads donates any beads with slight imperfections to Amani so that they can be made into jewelry. The handpainted beads are made from the clay of Mount Kenya. Abbott holds weekly “beading

nights” at the Campus Y and hosts “beading parties” throughout campus to sell the jewelry.

Abbott uses another Swahili quote on her business plan: “Asiyefunzwa na mamaye, hufunzwa na ulimwengu.” (“What the mother doesn’t teach will be taught by the world.”)

It is her own family, and the world, that have taught her much, she said.

“One of the most common questions I get asked is, ‘are you adopted?’ I am not adopted, but I am so thankful for my family,” Abbott said. “My mom and dad have been so supportive and have done everything they can to make sure I have every opportunity possible ... and to make sure that I grow up to be an individual with a positive impact on society.” •

ONLINE EXTRAS:

Read Morgan Abbott’s blog, hopeforamani.blogspot.com, and listen to audio clips from the interview at college.unc.edu/extras. E-mail her at morganpabbott@gmail.com to schedule an Amani “beading party.”



for Amani — that she created to support the Amani Children’s Foundation and New Life Homes. In Swahili, Amani means “peace.”

Her first goal for the summer of 2010: sending 12 university interns to Kenya to digitize the files for the 350 infants and toddlers in the orphanages in Nairobi, Kisumu, Nakuru and

Sociologist **BARBARA ENTWISLE**
leads massive study of
children's health

By DeLene Beeland
Photos by Donn Young

National TREASURE

When most people cruise through a neighborhood, they may be aware whose yard is tidy and whose is unkempt, if there are streetlights or if litter lines the sidewalks. But when Barbara Entwisle strolls through a community, every cigarette butt in the gutter and planted flower garden registers in her mind as a data point.

You see, Entwisle has carved her career from observing the minute details of people's lives and their built environments. She is the Kenan Distinguished Professor of Sociology with faculty appointments in Asian studies, geography, global studies, and environment and ecology. Her research has helped to illuminate important connections between neighborhoods and health. She has directed the Carolina Population Center since 2002 and conducts research into fertility, communities and the environment, and human migration patterns in Thailand.

Today, she's applying her nearly three decades of expertise linking sociology, demography, geography and health to one of the biggest cohort studies ever undertaken on North Carolinians. She is directing the state's involvement in the National Children's Study (NCS), the largest study of its kind in the United States, including some \$76 million in NCS contracts over an eight-year period, making hers among the largest funded research portfolios on campus.

There's more. In August, she took on a new administrative challenge as interim vice chancellor for research and economic development, as the University searches for a replacement for Tony Waldrop, who

left Carolina to become provost and vice president for academic affairs at the University of Central Florida.

"Barbara is in a strong position to help guide the continued growth of the University's research enterprise, which topped \$800 million during the last fiscal year," said UNC Chancellor Holden Thorp.

The NCS is a first-of-its kind attempt to recruit and retain 100,000 children from gestation to age 21. Sociologists call groups of people that are in the same age class a "cohort," and this 25-year long study will capture information by enrolling expectant mothers over a four-year time period and studying certain aspects of their babies' development plus factors that define the physical environments where their children live and go to school. For example, the participants' development and health status will be tracked, but this data will be coupled with water, air and soil samples taken from their homes and schools. The study will examine children's health as well as their physical, built and social environments.

Participants are from different

economic classes, ethnicities and geographic regions. Out of the 105 participating counties nationwide, seven are in North Carolina: Duplin, Durham, Cumberland, Burke, Rockingham, Buncombe and Gaston. Entwisle currently holds contracts to direct the studies in five of these counties.

"It's an ambitious goal," said Entwisle, who has been at UNC since 1985. "But it turns out to also be a wonderful advantage for the state of North Carolina, because the intent is to collect data on 1,000 kids per county nationally. So eventually, there will be 7,000 children in North Carolina who will be recruited and followed, which means that it is a treasure for the state as well as the country."

By treasure, she means that the data collected on these 7,000 children in N.C. over the course of their lifetimes could potentially be used for other studies to answer questions more specific to our state than the national study. As principal investigator of the N.C. counties involved in the NCS, Entwisle oversees a multidisciplinary team of faculty from the



SOCIOLOGIST
BARBARA ENTWISLE
HAS NEARLY
THREE DECADES
OF EXPERTISE IN
LINKING SOCIOLOGY,
DEMOGRAPHY,
GEOGRAPHY AND
HEALTH.

"I firmly believe that CHILDREN ARE OUR FUTURE ... and that's what this study is about. It's about investing in children."

College of Arts and Sciences, UNC Gillings School of Global Public Health, UNC School of Medicine and Duke Medicine.

Investigators will monitor babies still in the womb to learn about the fetal origins of disease, and they will also gather information on preterm births and low birth weight. As the children grow, researchers will monitor their nutritional statuses to learn about obesity and diabetes, and they will gather information on asthma and injuries as well as other health risks.

"These health conditions were selected because they were pressing issues. Take asthma, for example, is it a genetic disposition? Is it an environmental

concerns, and I think that was instrumental for how this project evolved."

She ignited the group to re-think survey and sampling methods, and she pushed them to unify parallel tracks of research where in one track, scientists examined health and poverty, and in another, scientists examined pollution and health.

"Don't you think that a lot of the high-poverty areas are also high-pollution areas? Yet these two groups of scientists rarely talk to each other," Entwisle said.

She has also made strong strides in developing indices for studying rural communities. The sociological tradition has many tools for studying urban areas,

Her broad, integrated perspective is influenced by nearly two decades of research in Thailand. She visits the country one to three times per year to investigate long-term questions about how populations affect the environment, and to track the movements of 45,000 people over time as they migrate from the countryside to cities and sometimes back again.

She has worked with teams spanning the social, natural and spatial sciences on the Thailand research. Their current work involves modeling how individuals and villages will respond to climate change.

"We know a lot about the little pieces of this," Entwisle said of climate change effects. "But we don't know about the whole sum or picture."

Entwisle's approach to research bleeds beyond traditional sociology.

"My philosophy is that I want to work on problems that are hard, and that I don't already know the answer to. I've been lucky in that I've been able to follow many interesting and complex pathways at UNC," she said.

The NCS is led by the Eunice Kennedy Shriver National Institute of Child Health and Human Development which partners with the National Institute of Environmental Health Sciences, the Centers for Disease Control and Prevention, and the U.S. Environmental Protection

Agency, as well as state-level entities such as UNC. The study also is helping to create 10 or more permanent jobs in each of the participating counties in N.C. •

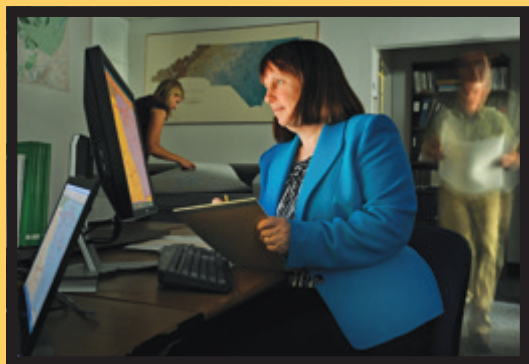
ONLINE EXTRAS: Watch an interview with Entwisle: snipurl.com/ymaqj.

N.C. Counties in the NCS:

• **DUPLIN CO.:** one of two counties selected to be the first "vanguard" sites nationally and began enrolling participants in January 2009. The other site was Queens County, N.Y.

• **DURHAM CO.:** Enrolling participants in fall 2010.

Other North Carolina counties will begin enrolling participants in the future.



LEFT: ENTWISLE ANALYZES DATA IN THE LAB. THE NCS IS A FIRST-OF-ITS-KIND ATTEMPT TO RECRUIT AND RETAIN 100,000 CHILDREN FROM GESTATION TO AGE 21. **RIGHT:** AS PRINCIPAL INVESTIGATOR OF THE N.C. COUNTIES IN THE STUDY, ENTWISLE OVERSEES A MULTIDISCIPLINARY TEAM OF FACULTY FROM UNC AND DUKE.



influence?" Entwisle said.

Her comment cuts to the nature-or-nurture questions surrounding many health issues in which the study will seek to gain significant insight.

Despite the NCS having a national protocol framework for conducting the study that took a decade to develop, there have been opportunities for collaborating scientists like Entwisle to contribute to designing the protocols. She said when she first came on board, she was the only sociologist in the picture.

"They had a lot of epidemiologists, pediatricians, obstetricians and environmental scientists, who all have different areas of expertise," Entwisle recalled. "I had an important background in survey methodology and demographic kinds of

including systematic observation checklists in which a researcher breaks a metropolitan area down block by block and uses a checklist to assess a community for things like sidewalks, trash in the gutter, graffiti and access to facilities. While none of these items individually has an effect on someone's health, years of study have shown correlations between things like social disorder and preterm births. Persistent graffiti and litter are signs of social disorder.

Yet no similar checklists exist for rural areas, so Entwisle is devising new ways of assessing these communities.

Entwisle said that her involvement in the NCS boils down to one simple mission.

"I firmly believe that children are our future ... and that's what this study is about. It's about investing in children."

Hand, Heart and Soul *Alum Todd Miller passionately protects the state's coast*

By JB Shelton

Seawater may not literally be running through his veins, but North Carolina Coastal Federation (NCCF) founder and executive director Todd Miller considers the coast part of his DNA.

Growing up in the 1950s and '60s in the community of Ocean, he and his two sisters seized joyful hours swimming, sailing, fishing, shrimping, catching crabs and exploring natural areas of Bogue Banks. Meanwhile, real estate speculators were dreaming up new uses for the land and waterways of Carteret County.

UNC exposed Miller (BA urban studies '78, MA city and regional planning '80), to environmental management and social entrepreneurship, knowledge that would come in handy for his life's work of protecting the coast from excessive development.

He created the coastal federation in 1982, after seeing how citizen groups throughout the country were effectively protecting their local environments. Twenty-eight years later, he is still motivated by knowing, "If I fail in my job, I lose what I love."

Miller's mission: Involve North Carolinians in coastal stewardship through education, advocacy, and habitat preservation and restoration. If he fails, citizens will lose what they love and need: the sanctity, natural beauty and productivity of our coast.

"Environmental protection has no shortcuts," Miller said. "The federation empowers ordinary people working together as a 'community' to accomplish extraordinary things." Under his leadership, the NCCF story is documented in 50 restoration projects encompassing over 40,000 acres of estuaries and more than 8,500 acres of land acquired for preservation.

Miller received the Old North

State Award in 2007 and the Southern Environmental Law Center's Southern Environmental Leadership Award in 2000.

"Todd Miller is the hand, heart and soul of the Carolina coastal conservation movement," said David R. Godschalk, Stephen Baxter Professor Emeritus in UNC's department of city and regional planning. "Without Todd to lead the fight, the coast would be left to the tender mercies of speculators, developers and engineers determined to sell it, overbuild it and then ring it with seawalls."

Colleague Raymond Burby, professor emeritus, added, "Miller's dedication is legendary in setting a national example of what

can be accomplished by grassroots groups that stay true to their missions. NCCF's multifaceted programs leave no stone unturned to preserve and enhance coastal resources through elementary school lessons, field trips and hands-on experiences."

On Earth Day 2010, the National Oceanic and Atmospheric Administration honored Miller, the federation and its partners (N.C. Marine Fisheries Division, NC State, N.C. Sea Grant and UNC-Wilmington) with the Excellence in Restoration Award, praising decades of dedicated work in restoring the state's degraded coastal habitats. Thanks to a \$5 million federal Recovery Act grant, the Oyster Restoration Project, led by local residents in the Pamlico Sound and around

coastal Carolina, rebuilt 50 acres of oyster reefs where each mature oyster can filter pollutants up to 50 gallons a day.

"These accomplishments," said Miller, "merely skim the surface (no pun intended) of what needs to be done: working with farmers on large-scale hydrologic restoration of farm land, advocating enforcing coastal laws and regulations, and teaching students how to restore marshes."

"We live where we work," noted Miller. "The project impacts our economy by employing truckers, quarry workers, barge operators, tugboat captains, scientists and fisheries' technicians."

UNC professor Bland Simpson, author of *The Coasts of Carolina: Seaside to Sound Country*, calls Miller "one of the most creative and visionary people working in environmental protection."

"His leadership in protecting our 300-plus miles of seacoast and 5,000 miles of interior, estuarine shorelines is exemplary and inspirational," said Simpson, a Bowman and Gordon Gray Distinguished Professor and NCCF board member. "As North Carolinians, we have a practical and a moral duty to make our many waters living models to the world." •

Online Extras: Learn more about the North Carolina Coastal Federation at nccoast.org.



Photo courtesy of NOAA



ABOVE: John Gray, right, presents Todd Miller and the N.C. Coastal Federation with NOAA's Excellence in Restoration Award.



Hark the Band

Marching Tar Heels celebrate 25th reunion

By Kim Weaver Spurr '88

LEFT: Gordon Hamrick '52 (also pictured on back cover) is a loyal supporter of the Marching Tar Heels. BELOW: Kirby Matthews '80 took his daughter Dianna Matthews '07 to her first band reunion when she was just 6 months old.

Eighty-year-old Gordon Hamrick, class of '52, still proudly accompanies the Marching Tar Heels on Alumni Day as they make their grand entrance into Kenan Stadium.

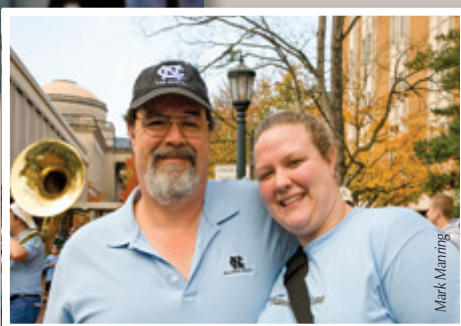
"It's a great, great thrill I tell you," said Hamrick of Shelby, the former chairman and CFO of Kendall Drug Co. He and his brother Rush, 88, both played French horn in the band. "To march on the Kenan Stadium field literally brings tears to my eyes."

Hamrick is just one of many loyal band alumni, some of whom will gather Oct. 29-30 to celebrate the band's 25th alumni reunion.

"In those days, we thought 120 members was a big band, and with Charlie Justice playing [football], everybody wanted to be in the band," said Hamrick, who also ran cross-country and track. He remembers that the Marching Tar Heels used to form the score on the field at half-time, then play "There Will Be Some Changes Made."

"Card stunts were done by the students in the stands, and they spelled out things like UNC or a flag, and the band would play whatever the audience was making," he said. "You had to turn the cards based on where you sat [in the stadium]. The card stunts were used into the '60s."

Hamrick established the Gordon G. Hamrick Band Scholarship Fund, the first band scholarship, in 1995.



"The band afforded me a lot of opportunities, and I felt like I should give back," he said.

• CLASS OF '99

James Lane '99 of Richmond, now assistant superintendent of instruction in Middlesex County, Va., was a Hamrick Band Scholar during his senior year. He met Hamrick when they both went on a tour of Europe in the summer of 2000 with the UNC Jazz Band, directed by music professor Jim Ketch.

Like everybody, Lane has his own band story to tell. That's where he met his wife, Sarah. He was a junior and trumpet section leader when she came to the band as a first-year student.

He was the first person to call to welcome Sarah to band camp, the hot, yearly August ritual where band members gather before the other students come back to campus to start practicing for the fall football season.

"I heard she was going to be a good player, so I did everything I could to make sure she was involved in every event I was," he said. "We hit it off. We had a lot of common interests surrounding music."

They dated for eight years, got married

in 2006, and today are the proud parents of 1-year-old Charlie. Director of University Bands Jeff Fuchs, who has been at UNC since 1995, was at the wedding.

• CLASSES OF '07 AND '80

Fuchs also taught trombone player Dianna Matthews '07 of Denton. She attended her first band reunion at 6 months old, with her dad, Kirby '80, a tuba player.

"My dad bled blue," Dianna said. "I learned the words to the [Carolina] fight song ... before I knew how to ask to go to the bathroom."

Kirby has a picture in his home office of Dianna at about age 3 in a UNC cheerleader uniform standing in front of his white fiberglass sousaphone. Kirby and his wife, Theresa, chaperoned some band trips in the '80s. "I can tell you that riding the bus to Houston is 26 hours," Kirby recalled.

And dad and daughter try to go to band reunion together every year.

As Kirby said, "I plan my October schedule around the band reunion. The band was family. ... That WAS college to me."

Online Extras: More at www.uncbands.org and www.alumni.unc.edu/band. To support the Marching Tar Heels, visit www.uncbands.org/excellence. E-mail your favorite band memory to spurrk@email.unc.edu, and we may publish it at college.unc.edu.

LIGHT 30 BIRTHDAY CANDLES FOR HUMANITIES PROGRAM

The Program in the Humanities and Human Values has turned 30. That's three decades of engaging scholars and the public in thoughtful explorations of history and culture in the context of our time.

It all started with Warren Nord, an expert on the philosophy of religion and education, who founded the humanities program and led it for its first quarter century. Nord retired from the University in 2009 and died in June of this year after a battle with leukemia. His legacy is impressive.

Since its inception, the program has sponsored more than 800 seminars, workshops and conferences, drawing nearly 51,000 participants to the University



Warren Nord

to discuss a wide range of moral, social and cultural issues. Participants have included business executives, legislators, public leaders, faculty, school teachers, UNC alumni and community members.

Today, under the leadership of Director Eve Duffy, the program hosts more than 25 seminars and 2,500 participants annually. The "Adventures In Ideas" weekend seminars feature faculty from the College, other schools at UNC and across the state, and explore trenchant cultural, moral and social topics from the perspective of the humanities.

The fall 2010 schedule includes public seminars on the French Revolution, world religions, American capitalism and more. In addition to the weekend seminars, the program will introduce shorter weekday courses as part of a new "Humanities in Action" initiative. These programs will feature UNC faculty addressing current issues in a more informal setting off campus. Pre-registration for all programs is required.

Online Extras: See www.adventuresinideas.unc.edu for current programs, a video and free iTunes recordings of past seminars. •



Everyday gratitude: A booster shot for romantic relationships

UNC research verifies what happy couples have intuited for years: It's the little things that can make a good relationship even better. For example, isn't it great if your mate notices your work stress levels have spiked and decides maybe it's a good time to take the kids off to the zoo so you can have some peace and quiet? It's even better if you remember to thank your partner afterward for the considerate gesture, or you do something equally special to show you care.

Generosity and gratitude work together to make healthy relationships stronger, according to Sara Algae, assistant professor of psychology, whose study of some 65 couples was published in the journal *Personal Relationships*.

Other research shows that positive thinking can have a longstanding constructive effect on emotional life. Algae's new study shows that extending positive emotions and gratitude to our romantic partners can increase the benefit of positive thinking tenfold.

"Feelings of gratitude and generosity are helpful in solidifying our relationships with people we care about, and [they provide] benefit to the one giving as well as the one on the receiving end," Algae said. The study suggests that the emotion of gratitude is adaptive, and ultimately helps us to "find, remind and bind" ourselves to people who seem to care about our welfare.

Algae and colleagues studied couples who were already in ongoing, satisfying and committed relationships. The team tracked the day-to-day fluctuations in relationship satisfaction and connection for each member of the couple. The effects on the relationship were noticed even the day after feeling the gratitude was expressed. Thus the research suggests that even everyday generosity and gratitude serve an important relationship maintenance mechanism in close relationships. •



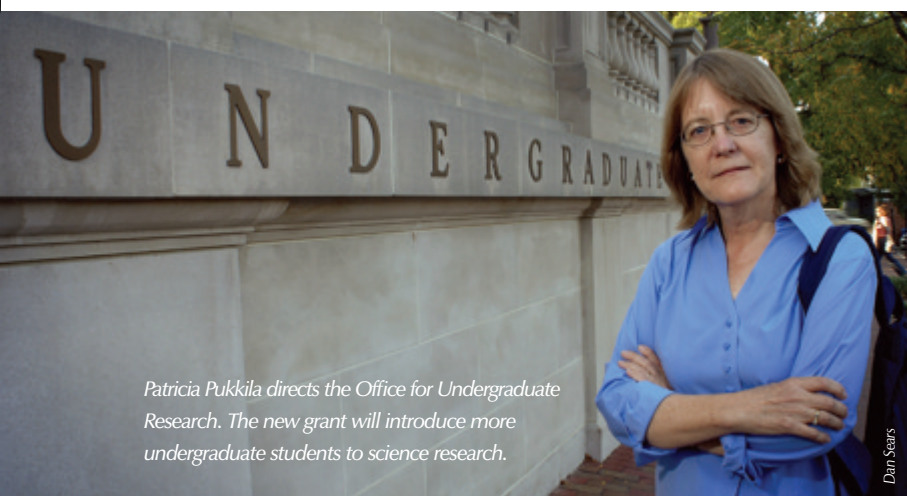
Sara Algae



\$1.3 million for undergraduate research

Undergraduate research got a \$1.3 million boost thanks to a grant from the Howard Hughes Medical Institute (HHMI) through the Precollege and Undergraduate Science Education Program that will benefit several exciting programs:

- **HHMI Undergraduate Research for Future Scientists and Clinicians Program** will enhance the Carolina Covenant Scholars Program, which provides support to students from low-income households. The grant will help 12 Covenant Scholars undertake original research in biology or chemistry



Patricia Pukkila directs the Office for Undergraduate Research. The new grant will introduce more undergraduate students to science research.

each year, as part of a broader science educational initiative. Most summer undergraduate research opportunities last for a single season, but Covenant Scholars in the HHMI program will continue their work the following summer.

- **HHMI Undergraduate Internships for Future Teachers Program** will enable students to develop first-hand understanding of the nature of science through summer internships. This program will be a partnership with UNC-BEST, a ground-breaking collaboration between the College of Arts and Sciences and the School of Education that prepares science majors to become high school science teachers. Students graduate in four years with both a science degree and a N.C. teaching license.

- **HHMI First Year Seminars in Science for Non-Scientists Program** is designed especially for students who do not intend initially to major in a scientific field. Students will learn how science can be used to solve the world's greatest problems. The program includes First Year Seminars and focused learning communities involving research-active faculty and graduate students who will coach undergraduates to adopt a scientific approach to complex issues.

"When we can provide empowerment, information and the means to pursue science, students can begin to imagine themselves in science careers," said Patricia Pukkila, director of the Office for Undergraduate Research. "They realize the benefits. And that is incredibly invigorating." •



Three PROMPT telescopes at the observatory in Chile.

\$1.8 MILLION FOR GLOBAL STAR-GAZING FROM N.C.

UNC faculty and students, as well as high school students across North Carolina, will be able to explore the night skies over four continents without leaving the state, thanks to a new \$1.8 million grant from the National Science Foundation. The grant will add six telescopes to UNC's Skynet Robotic Telescope Network.

Skynet is the software developed by UNC that remotely controls telescopes located far away. For the past four years, thousands of N.C. high school students have used Skynet via a Web interface to observe the night sky thousands of miles from Chapel Hill, all with the click of a few buttons. Additionally, 13,000 elementary and middle school students and members of the public have used an introductory version of Skynet at the Morehead Planetarium and Science Center. About 350 Carolina undergraduate students per year are using Skynet in introductory astronomy classes, accessing it from their laptops.

"Astronomers and students no longer need to raise money to travel to far-away telescopes or to stay awake night after night observing the sky," said Daniel Reichart, Bowman and Gordon Gray Distinguished Associate Professor of Physics and Astronomy in UNC's College of Arts and Sciences and director of Skynet, PROMPT and the Morehead Observatory.

Under the new grant, UNC will add the following to existing Skynet telescopes in Chile, the United States and Italy:

- Four new 16-inch optical telescopes at Siding Spring Observatory in Australia.
- A new 32-inch diameter optical and infrared telescope at the Cerro Tololo Inter-American Observatory in the Chilean Andes. The telescope will complement the six 16-inch Panchromatic Robotic Optical Monitoring and Polarimetry Telescopes (PROMPT) built in 2004.
- A refurbished 20-meter radio telescope at the National Radio Astronomy Observatory in Green Bank, W.Va. •

Tackling the Gulf oil spill

UNC College of Arts and Sciences researchers have been involved in frontline efforts to understand and deal with the BP oil spill, and their efforts have gained national media attention.

Marine microbiologist Andreas Teske and doctoral student Luke McKay searched the Gulf for life forms that could shed light on the impact of the oil spill and be helpful in the clean-up. McKay and several graduate students have been working in the Gulf on research expeditions studying the spill. McKay was aboard one of the first research expeditions to visit the area shortly after the spill began to unfold.

Marine sciences grad student Lisa Nigro also spent time in the Gulf studying the oil spill and was featured on "The Story" on *National Public Radio*. UNC alumna Samantha Joye ('87 biology, '93 Ph.D. marine sciences) led a research cruise through the spill site to confirm

the existence of underwater plumes. She is a professor of marine sciences at the University of Georgia. She was featured on *CNN*.

Fluid dynamics experts Richard McLaughlin and Roberto Camassa in the department of mathematics helped to explain why the oil spewing out of the BP spill was forming underwater plumes that were not rising to the surface.

They developed a video from an experiment conducted in their wave laboratory (snipurl.com/zwe2j) that shows how oil could plume and spread. Both researchers, along with students, analyzed video of the spill to estimate the amount of oil gushing into the Gulf. McLaughlin and Camassa's work was

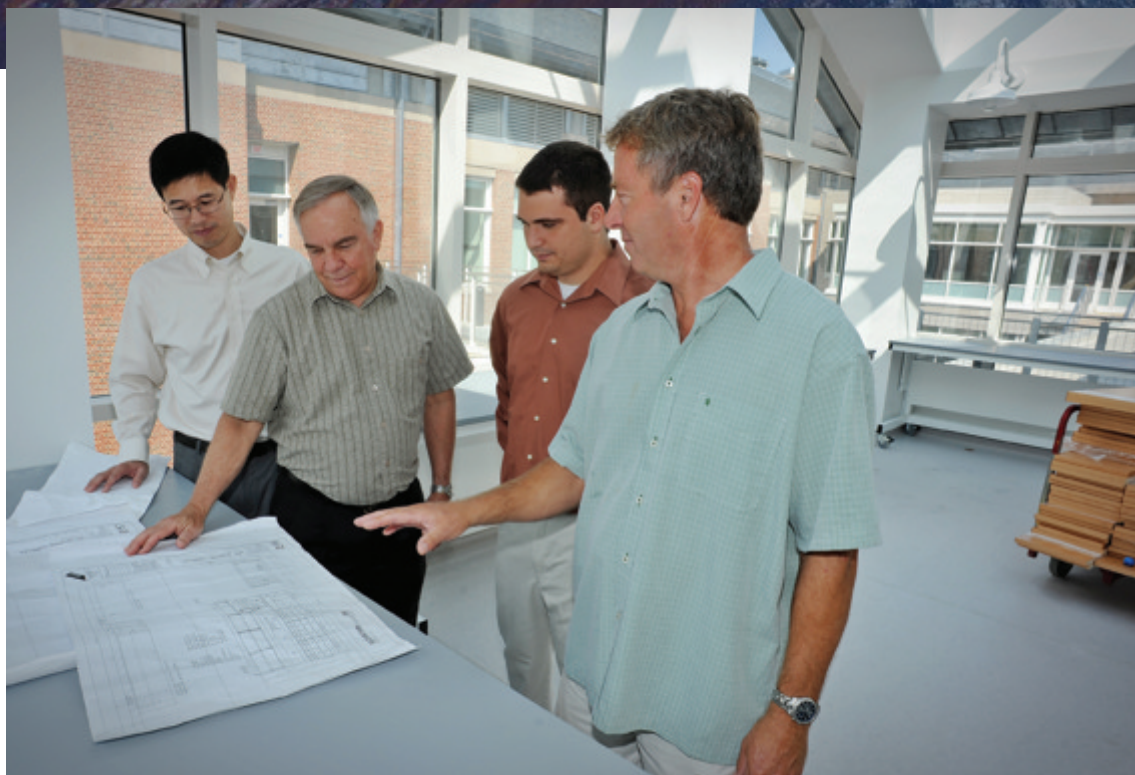
featured on *CNN* and *National Public Radio* and in *The New York Times*.

Rick Luettich, Sewell Family Distinguished Professor of Marine Sciences, has been leading efforts to provide better predictions of where the oil spill could spread, in near shore areas, using advanced computer models. He was featured in media outlets including *National Public Radio*, *U.S. News & World Report*, *Scientific American* and *The Christian Science Monitor*.

More on UNC scientists' work at snipurl.com/zwej7. •



Graduate student
Luke McKay on board
the RV Pelican.



New Venable Lights Up

From left, chemist Wenbin Lin, marine scientist Chris Martens, chemistry graduate student Joe Della Rocca and marine scientist Dan Albert in the rooftop greenhouse of New Venable Hall, which will be dedicated Oct. 12 at 3:30 p.m. More online at www.chem.unc.edu/alumni.

OCEAN CHANGES MAY HAVE DIRE IMPACT ON PEOPLE

The first comprehensive analysis of the impact of climate change on the world's oceans is sobering. The report in *Science* magazine, co-authored by UNC marine scientist John Bruno, points to dramatic and irreversible damage that has already taken place, with potentially dire impacts for hundreds of millions of people.

Greenhouse gas emissions are modifying many physical and geochemical aspects of oceans, in ways “unprecedented in nearly a million years,” said Bruno. “This is causing fundamental and comprehensive changes to the way marine ecosystems function.”

“We are becoming increasingly certain that the world's marine ecosystems are approaching tipping points,” he continued. “These tipping points are where change accelerates and causes unrelated impacts on other systems, the results of which we really have no power or model to foresee.”

The findings of the report emerged from a synthesis of recent research, carried out by Bruno and lead author Ove Hoegh-Guldberg of the University of Queensland in Australia.

The Earth's ocean, which produces half of the oxygen we breathe and absorbs 30 percent of human-generated CO₂, is equivalent to its heart and lungs. Hoegh-Guldberg said, “It's as if the Earth has been smoking two packs of cigarettes a day.”

The “fundamental and comprehensive” changes to marine life identified in the report include rapidly warming and acidifying oceans, changes in water circulation and expansion of dead zones within the ocean depths.

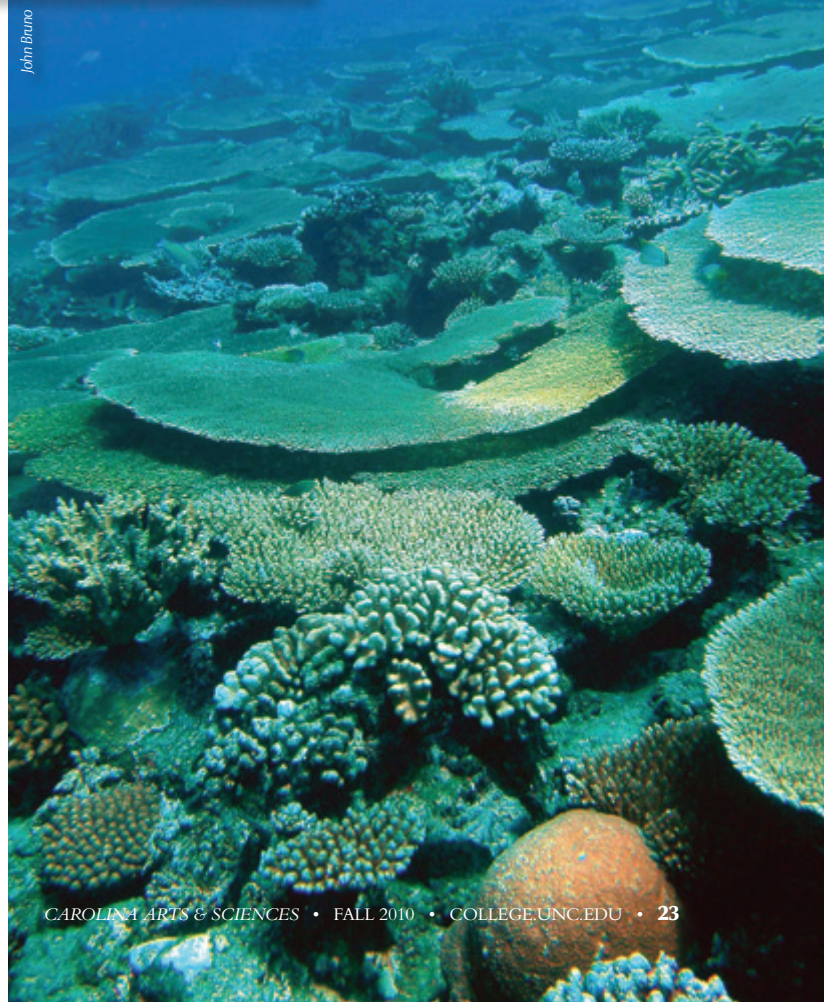
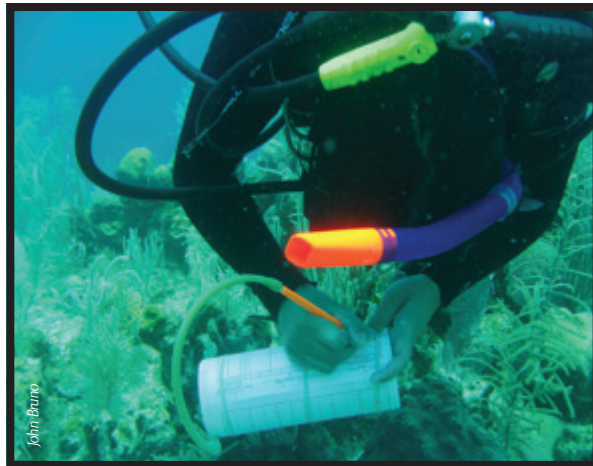
These are driving major changes in marine ecosystems: less abundant coral reefs, sea grasses and mangroves (important fish nurseries); fewer, smaller fish; a breakdown in food chains;

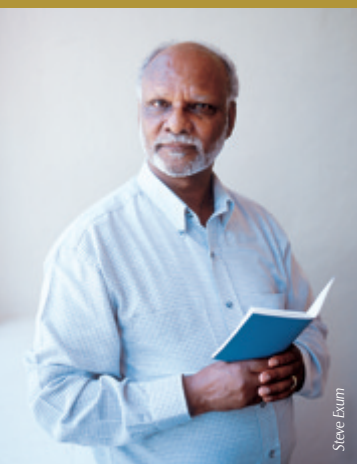
changes in the distribution of marine life; and more frequent diseases and pests among marine organisms.

The authors conclude: “These challenges underscore the urgency with which world leaders must act to limit further growth of greenhouse gases and thereby reduce the risk of these

events occurring. Ignoring the science is not an option.” •

LEFT and BELOW: Marine scientist John Bruno studies coral reef decline. A comprehensive new study shows climate change is already harming the earth's oceans.





Steve Exum

Bereket Selassie holds a small version of Eritrea's constitution.

MEET THE PROFESSOR

Bereket Habte Selassie

William E. Leuchtenburg Professor of African Studies and Law

• Backstory

Born in Asmara, which eventually became the capital of Eritrea when it separated from Ethiopia, Selassie served as attorney general and associate justice of Ethiopia's Supreme Court, narrowly escaped capture by a military junta, and joined the guerillas fighting for Eritrea's freedom. As a UNC professor, he specializes in African law, politics

and history, constitutional law, politics of development and international law of human rights.

• "Kings, Presidents and Generals: Africa's Bumpy Road to Democracy"

Students praise his First Year Seminar course on African civilization for the way Selassie opens their eyes, minds and hearts to the Africa behind the headlines.

"When it comes to first-year students, it is thrilling to teach them and to observe their reactions to my lectures, listening with rapt attention," Selassie said. "It is exhilarating, and it carries with it immense responsibility. It is a privilege to be a teacher ... I get that same thrill giving a lecture that Michael Jordan does putting that ball into the net."

• James Madison Wrote Only One Constitution

The fourth President of the United States, Madison is often referred to as the "Father of the Constitution." Selassie was not only constitutional commission chair and principal author of Eritrea's constitution, but also served as senior consultant in creating constitutions for other countries, including Nigeria and Iraq. A prolific writer, he penned *The Crown and The Pen: The Memoirs of a Lawyer Turned Rebel*.

• Inspiring Gloria Steinem

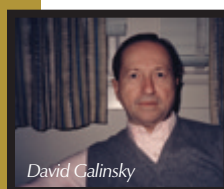
Selassie was living in exile and teaching at Howard University when he met Gloria Steinem in 1978 at a Smithsonian Institution conference. Years later, he was honored at a special conference at UNC, and Steinem came to pay tribute to him. The feminist icon and co-founder of *Ms. Magazine* praised her friend for giving "me and countless others ways of learning about and linking to universal struggles that might otherwise have seemed very far away." •

— By JB Shelton

Healey named first Galinsky Fellow in psychology

By Joanna Worrell Cardwell (M.A. '06)

The psychology department has named Kristin Healey the first David and Maeda Galinsky Fellow. Healey is a first-year graduate student with research interests in social anxiety and social cognition in schizophrenia.



David Galinsky

The late David Galinsky was a professor in the department for more than 40 years, serving as chair from 1983-1993 and directing the clinical program. After retiring in 1997, he continued to teach and work with graduate students while also assisting with fundraising. He and his wife, Maeda, a Kenan Distinguished Professor in the UNC School of Social Work, established the

David and Maeda Galinsky Graduate Student Fellowship in 1996.

Following David's death in January 2006, more than 170 family members, friends and colleagues contributed to the fund to honor him and help complete the fellowship in his memory.

Healey, who earned her undergraduate degree from The College of New Jersey, says she chose to attend Carolina because of the warmth of the clinical psychology faculty and students as well as her shared research interests with David L. Penn, professor and associate director of clinical psychology. Penn will serve as her mentor.

"Kristin is an outstanding choice for the inaugural Galinsky Fellowship, and the type of student that David Galinsky would have enjoyed working with," said department chair Donald Lysle. "I cannot think of someone who is more deserving of this fellowship."

After earning her undergraduate degree in 2007, Healey spent three years as a research assistant at the Schizophrenia Research Center at the University of Pennsylvania. She recently was first author of a manuscript investigating perception of patient facial expressions that was accepted for publication in *Schizophrenia Research*.

"I am incredibly honored to be receiving the Galinsky Fellowship and very grateful to the family and all who have worked to create this award," Healey said. "I feel being a Galinsky Fellow will afford me the time and flexibility to quickly begin my independent research and smoothly transition to graduate life at UNC." •

\$5.5 MILLION HELPS RECRUIT RISING STARS

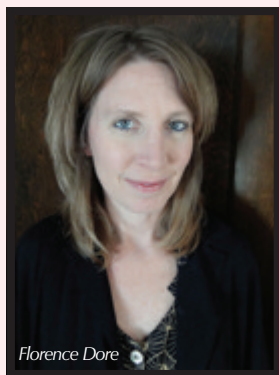
By Jim Magaw '89

Despite state budget cuts amidst challenging economic times, UNC's College of Arts and Sciences was able to hire outstanding new teachers and scholars, with the help of private funds. Two major gifts to the University from the William R. Kenan, Jr. Charitable Trust and an anonymous donor provided \$5.5 million for three years of support, yielding 14 new faculty in the College as well as two new positions at Kenan-Flagler Business School and one each in the schools of education and nursing.

"The impact of these gifts is immense, immediate and extremely important to the College, especially as we continue to face significant state budget cuts due to ongoing economic challenges," said Karen M. Gil, dean of the College. "Bringing outstanding new faculty on-board at this time makes a huge difference in our ability to provide our students with a first-rate education, including the courses and learning experiences they need to meet their academic goals."

This new influx of private funds gave Carolina a competitive edge in recruiting at a time when there are fewer job openings for promising new faculty on the market.

"With these gifts, we have been able to move nimbly and strategically into a buyer's academic job market," said William Andrews, the College's senior associate dean for fine arts and the humanities. "Department chairs seized this opportunity to have their pick, in almost every case, of top candidates from highly prestigious programs. The arrival of these exciting new hires will stimulate intellectual vitality, faculty morale and the professional prestige of key departments in the College."



Florence Dore

Here's a glimpse at three of the new faculty joining the College this year:

◦ **Florence Dore**, a new faculty member in the department of English and comparative literature, is a rising scholar in Southern literature. Hailed for her original and

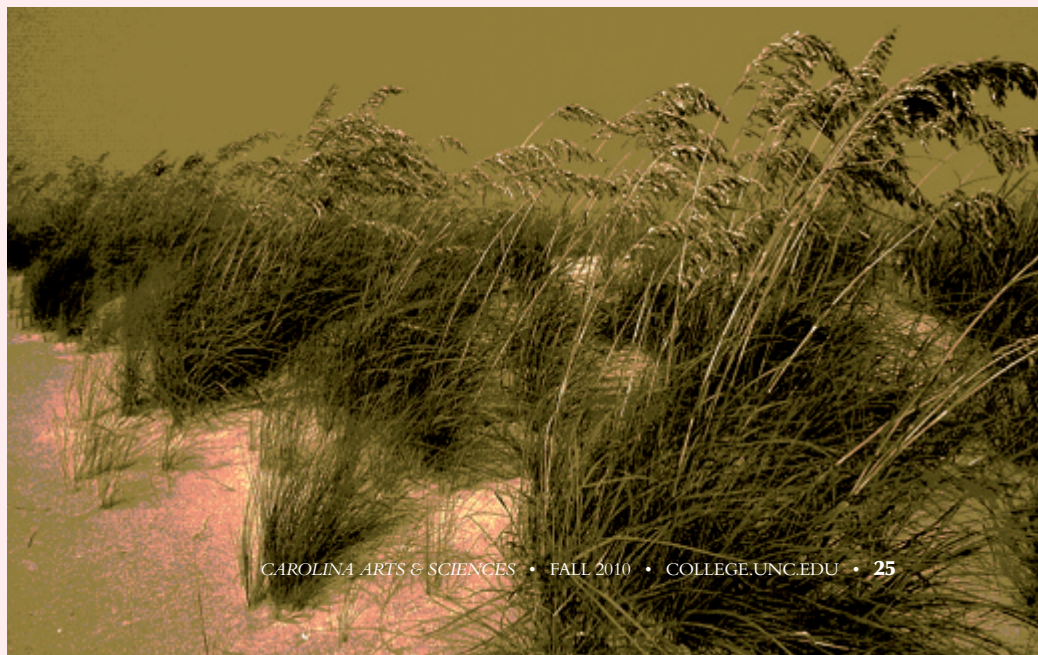
provocative study of the novel and American censorship, she also is exploring issues of privacy and race in fiction. Dore earned her Ph.D. from the University of California, Berkeley, was a fellow at the National Humanities Center and taught at Kent State University before coming to UNC.

"As a Southernist working in the post-1945 era, I consider UNC's English department the best place for me to be," Dore said. "Carolina has redefined the field of Southern studies, from groundbreaking feminist scholarship on Faulkner by Minrose Gwin to Bill Andrews' 1997 *Literature of the American South* ... I am overjoyed that this position became available and beyond grateful that

philanthropy made it possible."

◦ **Elizabeth Havice**, another Ph.D. graduate of the University of California, Berkeley, was lured by the department of geography. Her research on the effects of changing international economic and environmental dynamics on tuna fisheries in the Pacific spans the fields of geography, political economy and environmental policy and law. While at Berkeley, Havice won the outstanding graduate student instructor prize. Several colleagues call her one of the most promising young scholars they have ever mentored.

◦ **Laura Moore** brings a wealth of knowledge and experience to the department of geological sciences. Moore has been described by her colleagues as "one of the brightest young stars" researching the impact of climate change on the geology and ecology of coastal areas and barrier islands. Her recent work modeling barrier island evolution along the Outer Banks of North Carolina and the Chandeleur Islands of southeast Louisiana provides important new insights into large-scale coastal behavior. Moore earned her Ph.D. from the University of California, Santa Cruz, and has taught at Oberlin College, Duke University and the University of Virginia. •



BOOKS • FALL • 2010

• **The Coasts of Carolina: Seaside to Sound Country**

(UNC Press) by Bland Simpson and Scott Taylor. Simpson and Taylor, who have respectively written about and photographed Carolina's coastal areas for many years, offer a visual and textual portrait of the oceanfront, sound country and interior shores behind the barrier islands. They focus on nature, fishing and community life, with an emphasis on particular places and seasons. Illustrated with 145 color images. Simpson is the UNC Bowman and Gordon Gray Distinguished Professor of English and Creative Writing; Taylor is an award-winning photographer based in Beaufort, N.C.

• **Unbound: A True Story of War, Love and Survival**

(Little, Brown & Co.) by Dean King. It was 1934. China's Red Army was surrounded. Rather than face certain annihilation, some 86,000 soldiers—including only 30 women—fled on an epic journey now known as The Long March. Covering 4,000 miles in 370 days, they dodged bullets, climbed Tibetan peaks and trudged across deserts and swamps. Only 10,000 would survive, including all of the women. King, a 1985 UNC graduate, spent five years traveling the length of their trek, interviewing the women who were still alive to tell their story. Watch a book trailer at snipurl.com/10aunf.

• **The Cross of Redemption: Uncollected Writings** (Pantheon) by James Baldwin, edited by Randall Kenan, UNC associate professor of English and creative writing. In this assembly of 54 “lost” essays never published before in book form, the late cultural analyst, poet and playwright grapples with questions of moral integrity, language, art, life and race. Among the gems spanning 1947 to 1984 is a dramatic profile of boxer Sonny Liston on the 1962

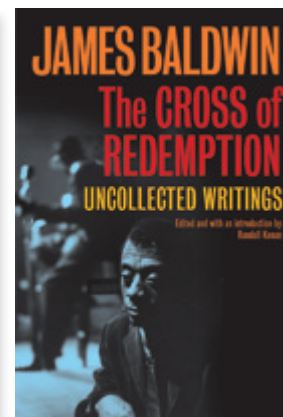
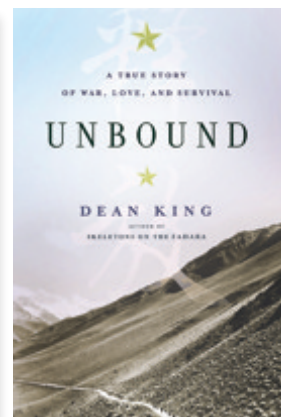
night he fought Floyd Patterson. Baldwin describes the fierce Liston as a “gentle teddy bear.”

• **Remembering Survival: Inside a Nazi Slave-Labor Camp**

(W. W. Norton & Co.) by Christopher R. Browning. In 1942, the liquidation of the Jewish-Polish ghetto of Wierzbick sent 4,000 Jews to their deaths in Treblinka and enslaved another 1,600 at factory camps in the nearby town of Starachowice. National Jewish Book Award-winning historian Browning, the Frank Porter Graham Professor, bases his study primarily on survivor testimonies from the slave-labor camps at Starachowice. Booklist writes: “... a highly credible and deeply shocking account of a slave-labor camp where the cruelty and brutality is comparable to the more publicized extermination camps like ... Auschwitz.”

• **The Design of Design: Essays from a Computer Scientist**

(Addison Wesley Professional) by Frederick P. Brooks, Jr. Effective design is at the heart of everything from software development to engineering and architecture. But what do we really know about the design process? The author draws on conversations with dozens of exceptional designers, as well as his own experiences in several design domains. Brooks, the Kenan Professor of Computer Science, was IBM's corporate project manager for the revolutionary System/360 development and founded UNC's department of computer science in 1964.



• **Everything But the Coffee: Learning about America from Starbucks**

(University of California Press) by Bryant Simon (1983 BA history, 1992 Ph.D. history). Simon, a Temple University professor, visited 435 Starbucks in the U.S. and 10 other countries for his book, analyzing everything from flooring to signage and everyone from customers to CEO Howard Schultz. Simon spent five years researching and writing about the company that serves 50 million customers per week eager for a cup of joe.

• **Tillie Olsen: One Woman, Many Riddles**

(Rutgers University Press) by Panthea Reid. Get ready for the unflinching, warts-and-all story of Tillie Lerner Olsen. Turns out the widely admired feminist icon and writer (author of *I Stand Here Ironing* and *Tell Me a Riddle*) may also have been an imperious narcissist, neglectful mother, unfaithful spouse and strident Communist, who put Party before family. Reid, who received her Ph.D. in English at UNC in 1971, attempts to unwrap the riddle of Olsen's complex personality in this fascinating biography.

• **Setting Down the Sacred Past: African-American Race Histories**

(Belknap/Harvard University Press) by Laurie Maffly-Kipp. The author draws on lectures, sermons, plays, poetry and other works of little-known writers from the American Revolution and World War I that reflect on how the black community in the U.S. has attempted to record and analyze the meaning of the African diasporic experience. She explores

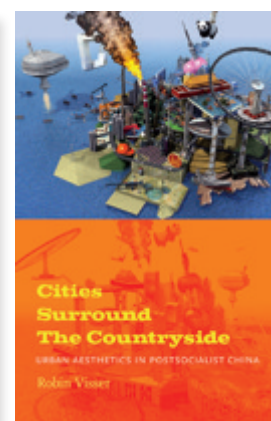
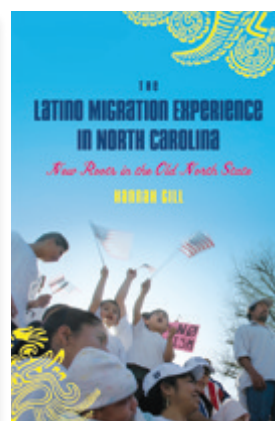
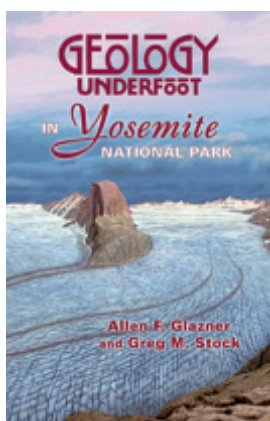
the works of free blacks during slavery as they attempted to write their own histories and examine their circumstances as distinct and similar to that of slaves. Maffly-Kipp is professor and chair of religious studies at UNC.

- **Lumbee Indians in the Jim Crow South: Race, Identity and the Making of a Nation** (UNC Press) by Malinda Maynor Lowery. With more than 50,000 enrolled members, North Carolina's Lumbee Indians are the largest Native American tribe east of the

were awakened to the wonders of its geological gems. They have produced a highly accessible, illustrated, geological guide to one of the most popular and majestic parks in America.

- **Late & Great American Designers 1960-2010** (USITT, Broadway Press) edited by Bobbi Owen. Twenty-five leading designers of scenery, costume, lighting, sound and makeup are featured in illustrated essays, published together on the 50th anniversary of USITT —

- **The Latino Migration Experience in North Carolina: New Roots in the Old North State** (UNC Press) by Hannah Gill. In recent decades, the Southeast has become a new frontier for Latin American migration to and within the United States, and North Carolina has had one of the fastest growing Latino populations in the nation. Gill offers North Carolinians from all walks of life a better understanding of their Latino neighbors. Gill ('99 BA anthropology) is assistant director of the Institute for the Study of the Americas at UNC.



Mississippi River. Lowery, a Lumbee and UNC assistant professor of history, describes how, between Reconstruction and the 1950s, the Lumbee crafted and maintained a distinct identity in an era defined by racial segregation in the South. Using photographs, letters, genealogy, federal and state records, and first-person family history, Lowery demonstrates how the Lumbee People challenged the boundaries of Indian, Southern and American identities.

- **Geology Underfoot in Yosemite National Park** (Mountain Press Publishing Co.) by Allen F. Glazner and Greg M. Stock. Glazner, UNC Kenan Distinguished Professor of Geological Sciences, and Stock, Yosemite National Park's first-ever park geologist, met on a field trip when Stock was still a graduate student. They both grew up in California, where they

the United States Institute for Theatre Technology. Owen is the Michael R. McVaugh Distinguished Professor of Dramatic Art and senior associate dean for undergraduate education.

- **Santa: A Novel of Mexico City** (UNC Press) by Federico Gamboa, translated and edited by UNC historian John Charles Chasteen. This enduring classic of Mexican literature traces the path to ruin of a country girl, Santa, who moves to Mexico City after she is impregnated and abandoned by her lover and subsequently shunned by her family. Gamboa, one of the most important Mexican novelists of the late 19th and early 20th centuries, reveals much about Mexican mores and culture at the start of the 20th century and beyond. This is the first time the book has been made available in English.

- **Cities Surround the Countryside: Urban Aesthetics in Postsocialist China** (Duke University Press) by Robin Visser. Denounced as parasitical under Chairman Mao and devalued by the norms of traditional Chinese ethics, the city in China now functions as a place of individual and collective identity. Cities in China envelop the countryside, geographically and culturally. Through interpretations of fiction, cinema, visual art, architecture and design, the author illuminates the cultural dynamics of three decades of radical urban development in China. Visser is associate professor of Asian studies.



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Why Paris?

By Libby Longino '10

It seems a certain need for a civilized nook was a pattern among the writers I came to Paris to study. For Joyce it was the Brasserie

Lipp; for Hemingway, the Closerie des Lilas; for Gopnik, the Brasserie Balzar. For me, it's the Mariages Frères Salon du Thé: that spot of calm and ceremony and craft that makes me feel that, despite what Rousseau may have said, civilization is a pretty great thing after all.

The walls of the salon at 30 Rue de Bourg Tribourg, where Henri Mariage first began scooping tea from huge tin canisters for fashionable customers in 1854, are a soft yellow and covered with vintage maps and travel posters from the regions where the famed tea house buys its product. Waiters in white linen suits tread softly over the marble floors so that they might softly inquire about your order or softly pour more tea into your cup. Sunlight tumbles softly onto the tea sets from the skylights three floors above. The soft-smiled maitre'd, I'm guessing, would not have it any other way (he frowns at a cloud and it softly goes away).

I order a pot of Casablanca tea, a white tea flavored with mint and bergamot. It comes in a heavy white ceramic teapot — a teapot entirely lacking in pretension, a teapot that clearly knows its purpose and cannot be bothered by any frills as it goes about the serious business of brewing and pouring tea. With it, I order one perfect rose macaroon, and when I let my teeth sink slowly through its crisped outer shell it blooms in my mouth. I have with me a book of essays about life's minute pleasures — the first sip of beer, the smell of apples in a cellar, getting up early to buy bread — by French writer Philippe Delerme. His determination to prompt miniature rebellions against the



drone and monotony of lives dictated by routine is the perfect accompaniment to my tea and macaroon. Sip, nibble, turn a few pages, sip, turn a page, pour, sip, nibble, glance around ... every step demands my full attention.



The essay "Why Paris?" has now become almost ubiquitous, especially why Paris for Americans. Because Paris is beautiful in a way no American city is, because Paris has

a literary culture that is perfect for fostering talent. Because writers must transplant themselves in order to grow. Because the lights beckon to us from across the ocean. Because we are easily seduced by the power of old Europe, chronicled in all those monuments. Because of the glamour, because of the liberal moral culture. Because it is a city of dreams. Because of the French Revolution. Because of the Seine, because of the boats on the Seine, because of the people on the boats on the Seine. Because they swear up and down that the light is different, especially in the morning (or in the afternoon, or in the early afternoon, or at dusk). Because Paris is ...

Everyone has their answer to "Why Paris?", and this is mine: Because of the surprise of finding, in a city whose monuments force a consciousness of history on its inhabitants, refuge from time within the four walls of a tea salon. Sip. Nibble. Exhale.

Rhodes Scholar Libby Longino '10, an English and public policy major from Dallas, Texas, spent a week in spring 2010 exploring the American literary tradition in Paris. She received a Discovery Fund grant from the Morehead-Cain Foundation to support the trip.

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